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jc841 U.S. PTO
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jc571 U.S. PTO
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To: Box Patent Application
Commissioner for Patents
Washington, D.C. 20231

NEW APPLICATION TRANSMITTAL - UTILITY

Sir:

Transmitted herewith for filing is a **utility** patent application:

Inventor(s): Al-Riaz Adatia

Title: MEDIA RESOURCE MANAGER/PLAYER

I. PAPERS ENCLOSED HEREWITH FOR FILING UNDER 37 CFR § 1.53(b):

47 Page(s) of Written Description

21 Page(s) Claims

1 Page(s) Abstract

22 Sheets of Drawings ☒ Informal ☐ Formal

II. ADDITIONAL PAPERS ENCLOSED IN CONNECTION WITH THIS FILING:

☐ Declaration

☐ Power of Attorney ☐ Separate ☐ Combined with Declaration

☐ Assignment to _____ and assignment cover sheet

☐ Verified Statement establishing **"Small Entity"** under 37 CFR §§ 1.9 and 1.27

☐ Priority Document No(s): _____

☐ Information Disclosure Statement w/PTO 1449 ☐ Copy of Citations

☐ Preliminary Amendment

☒ Return Postcard

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(37 C.F.R. §1.10)

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JC841 U.S. PTO
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Independent Claims	-	3	=	0	x $78.00	$0.00
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V. AUTHORIZATION TO CHARGE FEES

The Commissioner is authorized to credit any overpayment and to charge any underpayment to Lyon & Lyon's Deposit Account No. **12-2475** for the following:

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Respectfully submitted,

LYON & LYON LLP

Dated: June 14, 2000

By: _____
Robert S. Mayer
Reg. No. 38,544

TITLE OF THE INVENTION

MEDIA RESOURCE MANAGER/PLAYER

CROSS REFERENCE TO RELATED APPLICATIONS

Priority is claimed to U.S. Provisional Application No. 60/139,158, filed June 14, 1999, which is incorporated herein by reference.

BACKGROUND OF THE INVENTION

The field of the present invention relates to user interface controls for virtual instruments displayed using a computer, and to the application of user interface controls in the context of a media player (e.g., an audio player).

Virtual instruments have been implemented on computers for some time. However, the user interfaces for many of these virtual instruments are often inconsistent with the instruments that they are intended to portray. The inventors have recognized a need for improvements to the user interfaces of virtual instruments.

SUMMARY OF THE INVENTION

The present invention relates to certain aspects of a user interface for a virtual instrument that is being displayed by a computer. These aspects include providing a multi-sized user interface, separating a user interface into two control regions, providing a pop-out control panel, providing a graphical playlist indicator, inter-relating band controls, controlling button illumination, sliding information onto and off of a display panel, integrating visualizations into an instrument, and providing a pop-out control panel with control buttons.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is an example of a large-mode user interface for a media player.

FIG. 2 is an example of the large-mode user interface with a slide-out panel extended.

FIG. 3 is an example of the large-mode user interface after the visual mode icon has been clicked.

FIG. 4 shows a track progress indication in the large-mode user interface.

FIG. 5 is an example of a file information display.

FIG. 6 is an example of a full-window visualization mode display in the large mode user interface.

FIG. 7 shows an alternative full-window visualization display in the large mode user interface.

FIG. 8 shows the audio control mode in the large mode user interface.

FIG. 9 shows the audio control mode with the equalizer controls set to different positions.

FIG. 10 shows the audio control mode with spline tension turned off.

FIG. 11 shows a general menu in the large mode user interface.

FIG. 12 shows a the setup menu of FIG. 11, with an alternate skin being displayed.

FIG. 13 shows the large mode user interface after the alternate skin has been applied.

FIG. 14 shows the visual effects menu in the large mode user interface.

FIG. 15 shows a plug-ins menu in the large mode user interface.

FIG. 16 shows an information screen in the large mode user interface.

FIG. 17 shows a playlist editor screen in the large mode user interface.

FIG. 17B shows a music download screen in the large mode user interface.

FIG. 18 shows a medium size user interface for a media player.

FIG. 19 shows the medium size interface with a different visualization waveform selected.

FIG. 20 shows a small mode user interface for a media player with the control tray retracted.

FIG. 21 shows the small mode user interface with the control tray extended downward.

FIG. 22 shows the small mode user interface with the control tray extended upwards.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

The preferred embodiment of the present invention is an audio player and file managing system. It runs as an application on a computer running an operating system such as Windows or Linux. The preferred audio player can appear in any of three display modes: small, medium, and large.

The large mode, also referred to herein as the navigation console, is shown in FIG. 1. It includes two different types of controls: a group of "hardware like" controls that includes buttons and knobs, and a group of display-based controls.

The hardware-like controls are operated by the user by clicking on them with a mouse and manipulating them. For example, the play button appears as a round green button with a triangle icon over it. When the mouse pointer is placed over this object, and the left mouse button is pressed, the player will begin to play the currently selected song. Similarly, when the mouse is placed over the pause button and the mouse button

is clicked, the currently playing song will be paused. Pressing the pause button again will resume the playing of the song. These controls are called "hardware-like" because their operation mimics the operation of physical pushbuttons on a physical piece of audio equipment like a CD player or a cassette deck.

The hardware-like section also includes a volume control knob, which is operated using the mouse, as explained in section 2 of the appendix. It also contains track forward and back buttons, a repeat button, a shuffle mode button, and a file select button. The hardware section also includes up and down buttons for toggling between various options, which will be described below.

The hardware-like section also includes a slide-out panel, which pops out by clicking on the arrow icon (at the bottom left of FIG. 1) with a mouse. When the user pops this panel out, it reveals an additional set of hardware-like controls, as shown in FIG. 2. These controls are explained in section 10 of the appendix. The equalization settings of the player can be modified by clicking and dragging the equalization sliders up or down. The balance, amp, and pitch control knobs in the slide out panel operate in a similar manner as the volume control knob. The slide-out panel can be closed (and returned to the configuration of FIG. 1) by clicking on the arrow icon.

In addition to the hardware-like control described above, the player also includes computer-like display based controls. These include a set of navigation buttons which appear as small circles in the upper right corner of the display area of the player. These navigation controls are described in section 2 of the appendix. At the very bottom of the display area is the title of the currently selected song. Immediately above the selected song, to the left, is the version of the software

running on the player. The central region of the display includes six selection objects: music download, playlist editor, visual mode, setup options, info about, and audio controls. The user can access any of these modes by clicking on the corresponding region of the display. The display regions shown in FIGS. 1 and 2 is called the console navigation screen, which and is also referred to as the main menu.

FIG. 3 shows the state of the display after when the visual mode icon has been clicked. The hardware-like controls at the right side and the bottom of the player do not change - they remain the same throughout all the modes. The navigation buttons in the top right of the display appear in this mode as well, as with the other modes. In the top left corner of the display is a visualization window. This window displays a moving graphic that is preferably related to the music being played.

A track and time indicator is a digital readout located immediately beneath the visualization window. The track indicator indicates which track is being played. The time indicator indicates the amount of time that has elapsed in the track that is currently being played. If the mouse is clicked over the time indicator, it switches to display the amount of time remaining (i.e. unplayed) in the current track.

The playlist progress indicator and a track progress (time) indicator are located beneath the digital readout. The playlist progress indicator is a linear display of the progress through the playlist, and the track progress indicator is a linear display of the progress through the track. At the beginning of a track, the track progress indicator is dark. As the song plays, the left side of the track progress indicator will light up. The illuminated portion on the left side will grow towards

the right as the song progresses, until it reaches the right end of the track progress indicator at the end of the song.

In addition to their display function, the user can use these progress indicators to jump to any portion in the song by clicking the mouse over the corresponding spot on the track progress indicator. For example, if the user wants to jump directly to the exact center of the song, he would click on the center of the track progress indicator. If the user wants to return to the beginning of the song, he would click on the left side of the track progress indicator. The playlist progress indicator operates in a similar manner, except that the different portions of the playlist indicator correspond to the different tracks of the playlist. Thus, in the displayed example, where the playlist includes exactly two songs, the left half of the playlist progress indicator corresponds to the first song (the first track) and the right half of the playlist progress indicator corresponds to the second track. The user can jump directly to the first track by clicking on the left half of the playlist progress indicator, and can jump to the second track by clicking on the right half of the playlist progress indicator. In cases where there are N tracks on the playlist, the playlist progress indicator would be divided into N equally spaced control regions.

As the mouse pointer is moved over the various portions of the playlist progress indicator, the name of the corresponding track appears on the bottom portion of the display. As the mouse pointer is moved over various portions of the track progress indicator, the corresponding time and the time remaining in that track appears at the bottom of the display. This is depicted in FIGS. 3 and 4 respectively.

When the user clicks on the "file info" object of the main menu, the player generates an HTML page and a call is made to

launch a browser to display the generated HTML page. Preferably, this HTML page will contain additional information about the track currently being played. An example is shown in FIG. 5.

Returning to FIG. 4, in the top right corner of the visualization area there are two small icons. When the rightmost of these icons is clicked, the display will switch to full-screen mode and fill the entire computer monitor. This is called the full screen VIS mode. When the leftmost icon is clicked, the display changes into the full window VIS mode. FIG. 6 is an example of the display in the full window VIS mode. When in this mode, the display can be returned to the normal VIS mode(as shown in FIG. 4) by clicking the left icon.

The controls operate the same way in full window VIS mode and normal VIS mode. Controls are not, however, available in the full screen VIS mode. To regain control of the player in the full screen VIS mode, the user presses the escape button on the computer. In both the full window and the normal VIS mode, the up/down button toggles between the different display visualization options. FIG. 7 shows an alternative visualization display which was selected by clicking on the up button. The various visual displays are sequenced through by pressing the up and down buttons.

To return from the visual mode to the main menu, the user presses the right mouse button. An alternative way of returning to the main menu is to click on the left facing arrow and the small navigation button located at the top right of the display.

FIG. 8 shows the display after the user has clicked on the "audio controls" object of the main menu. The visual mode has been turned off in this figure for clarity, although it could remain on if the user so desires. In the audio control mode, the audio enhancement control panel is automatically opened, and

an equalization graph is displayed above it. In this mode, the user can modify the frequency response of the player by sliding the equalization sliders (located in the sliding control panel) up or down.

The display region also includes two boxes: equalizer enabled and spline tension. When the user clicks his mouse pointer in one of these boxes, an X is alternately placed or cleared in the box. By X-ing the equalizer enabled box, the user instructs the system to apply the equalizer settings to the audio being generated. When the equalizer enabled box is not Xed, the equalizer settings are not applied. Near the bottom of the display are load, safe, and reset icons, which are explained in section 10 of the appendix. When the user clicks on reset icon, the equalization settings all return to their center position.

When spline tension is turned on, sliding one of the equalizer controls effects its neighbors with a rubber-band-like effect. Thus, after resetting the equalizer settings by clicking on reset, if only the center equalizer knob number 10 is moved to the top, the result will be as shown in FIG. 9. Preferably, this effect is inversely proportional to the square of the distance between the sliders.

In the preferred implementation, when the user first clicks on any slider, the state of all the sliders are saved. Then, when the selected slider is moved, a difference for each of the sliders is computed and then applied to the original saved state of the other sliders. The saved state, however, is not updated until the slider that is currently being moved is released (by releasing the mouse button. Because the saved state is not updated dynamically, movement of any given slider control will not initiate time-variant rippling through the other controls. This arrangement also enables a slider that is returned to its

original position and released to leave the other sliders in their original positions.

In contrast, when spline tension is turned off and the equalizer is reset, and the equalization slider number 10 is then moved up to the top, the resulting frequency response will be as shown in FIG. 10.

If the user has a particular equalization setting that he likes, he can save that setting by clicking on "save" near the bottom of the screen. A menu slides in and asks the user for a location name for saving the equalization settings. Then, at any later time, the user can return to that equalization setting by clicking on the load on the bottom left of the audio control screen and selecting the corresponding preset file. The user can also select from various predefined presets by clicking on the left and right arrows at the bottom right corner of the display. These arrows will select predefined equalization settings such as classical, jazz, rock, pop, and dance.

Another menu that is accessible on the main level is setup options. When the setup options object is clicked, the screen changes to the configuration shown in FIG. 11. The general and plug-ins region at the bottom of the display select between two distinct menus. The selected menus appears at the right hand side of the display. In FIG. 11, the general menu is selected. This general menu includes entries of system, audio, visual, file type, Vis FX, Internet, and skins.

In FIG. 11, the skins selection is wider than the other menu selections because that selection is currently selected. In this mode, The user can toggle through the various available skins by clicking on the up and down select buttons. After clicking on the up select bottom, the next skin is displayed, as seen in FIG. 12. The new skin takes effect when the visual mode is exited (by either clicking on the right mouse button or on

the left arrow navigation bottom). The player will then take on the appearance of the newly selected skin, as shown in FIG. 13.

Returning now to the setup options of the originally selected display skin, other submenus can be selected by clicking on the desired region displayed on the right side of the screen. For example, when the Vis FX region is clicked, the display will appear as shown in FIG. 14. Note that now the Vis FX bubble is wider than the other bubbles, because it is selected. This mode is used to add special effects to visualization that are displayed in the visual mode. These special effects include blur, smoke, and zoom. The "reverse" check box reverses the direction of the zoom from zoom in to zoom out.

When the "plugins" region at the bottom is clicked, the menu selectors at the right side shrink towards the right. Meanwhile new menu selectors grow toward the left. In the plugins mode, these new menus include stardust, WMT 1.2, MikIT, and CD audio, as shown in FIG. 15. These setup options are discussed in section 8 of the appendix.

When the "info about" region on the main menu is clicked, the display shown in FIG. 16 appears. This display contains general information and also includes three mouse-selectable regions on the right: read me, what's new, and license. When the user clicks on one of these selectable regions, the system generates an HTML page and launches a browser (such as Internet explorer or Netscape navigator) in a conventional manner. The launched browser will then display canned information associated with the selected word.

When the "playlist editor" is selected from the main menu mode, the display will change to the configuration of FIG. 17. In this mode, the unit displays all of the tracks that are currently loaded into the unit. In the example of FIG. 17, two

tracks are loaded: Brahms intermezzo and Mendelsohn electric guitar. The up and down buttons are used to point to the desired track, and the play button is then used to start the play function. After being pressed, the brightness of the play button momentarily increases, which provides the user with positive feedback. Then, the green-light color of the play button slowly fades out, and it is replaced with a red-light colored stop button. Preferably, the play button has a triangle icon, stop button has a square icon, and the fade in/out takes 200 mSEC. Alternatively, the user may use a mouse and double click on the title in the play list to select and start the desired track.

At the bottom of the playlist editor screen are sort, shuffle, reverse, clear, add, remove, and save. Clicking on any of these words performs the associated function, as described in section 6 of the appendix. In particular, clicking on save opens a window on the computer screen asking for a destination file into which the playlist should be saved; and clicking on add opens a similar window for loading a previously stored playlist from the computer. Additional information is provided about each of these menu selections at the bottom of the display as the mouse pointer is moved over the corresponding selection region.

When the "music download" button from the main menu is selected, a number of menu regions will appear on the screen, as shown in FIG. 17B. These regions preferably includes links provided by the player software manufacturer. When the user clicks on one of these links, the player sends a URL to a browser and the browser obtains the associated web page. If the browser is not already running, the player will issue a call to start up the browser. The user then navigates the web in a conventional manner in order to download audio content. In the

music download mode, whenever the mouse pointer is placed over one of the links, an explanatory message is displayed at the very bottom of the display.

In general, when one menu is being replaced with another, the transitions are not abrupt. So instead of abruptly disappearing, an old menu will slide off to the side, to the bottom, or into a corner. Then, the replacement menu will slide in from the side, bottom, or corner. This maintains a feeling that the virtual device is a single instrument, and not a plurality of individual windows of the type normally found on windows based computers. The sliding-tray audio controls (shown in FIG. 2) also contribute to this feeling. Similarly, when menus within a page change, such as the setup option page, the menus do not abruptly disappear: they shrink off to the right and new menus grow in their place.

The appearance of the unit can be changed with skins as described above, by toggling through the various skins to obtain the desired appearance. Skin designers, do not, however, have complete control over the appearance of the unit. They only have control over the hardware-like portions of the user interface. The unit always retains control of the display portion of the user interface. This arrangement insures that the unit can be easily used no matter what skin is selected, and insures that the commands are easily recognizable. The skins can, however, change the colors of the display area.

Another advantage of limiting skin flexibility is that it enables old skins to work with new revisions of the software. By limiting new revisions to the display area, changes to the hardware-type area can be avoided. As a result, skins that only modify the hardware-like interface will work properly with new revisions of the software.

The visual mode is integrated into the unit itself and is not implemented by opening another window on the windows-based computer. This provides a number of advantages: First, it enables the instrument to add text on top of the visual graphic display, which enables a large display to be used without taking up too much space on the computer screen. In addition, when the visual display window is incorporated within the unit itself, movement of the unit on the computer screen appears smooth. Conventional systems, on the other hand, typically paint the graphics in a separate window. This can lead to disjointed movement when the unit is dragged, because the display window may not follow the main unit in lockstep.

In addition, integrating the graphics into the unit facilitates the development of visual effects by third party developers. The software plug-ins developed by these developers does not need to obtain any knowledge of the text that is to appear over the images. The third party units render their graphics into a bit-map output and the unit modifies this bit-map output and paints the desired text on top of the background provided by the visual program. This approach also enables the unit to apply special effects to the video display, such as blurring and smoke, and does not require each developer of visual systems to provide their own special effects.

Preferably, the video content is correlated to the audio content in real time. But non-correlated systems may also be implemented. In addition, other non-audio outputs may also be added including, for example, a vibration output, a light show laser output, or a force-feedback output. These outputs are preferably correlated to the audio content in real time, but may be independent thereof.

The second display size option is the medium size display, or mid-size mode. This display can be selected by clicking on

the down arrow in the navigation buttons of the large display. The mid-state mode is shown in FIG. 18.

In this mode, most of the hardware-like controls are available in the form of buttons or knobs located on the boundary of the unit. The display area is split into two regions -- an upper region and a lower region. Preferably, these regions are circularly shaped. The upper region is surrounded by a series of small indicator lights, which perform the same function as the play list indicators in the large mode. The lower region is surrounded by a second series of indicator lights, which correspond, to the track progress indicator of the large mode. Track selection can be accomplished by clicking on the playlist progress indicator, and time selection may be accomplished by clicking on the track progress indicator, in a manner similar to the large display mode.

Visual effects appear in the upper window, as do the navigation buttons. Although the equalizer settings and the amp and balance settings found in the audio enhancement control in the large mode are not present in this mode, the pitch control is provided as a rotary knob immediately left of the volume control. Operation of this rotary control is similar to the operation of the other rotary controls described above.

When the mouse pointer is placed in the lower portion of the upper display region, a menu pops up which allows the user to scroll through the various visualization displays. The user selects the desired visualization display by clicking on the right arrow or the left arrow. When the user clicks on one of these arrows, the name of the newly selected waveform appears on the lower display, as shown in FIG. 19. Otherwise, the name of the track currently being played will appear on the lower display, along with the track number, followed by the time

indicator, which indicates the time within the track being played.

A third display mode is also available -- the small-state mode. This can be selected by clicking on the down arrow navigator control from the mid-state mode or on the double down arrow navigator control from the large mode. In the small state mode, the unit appears as in FIG. 20. Here, the number on the left indicates the track, and the number on the right indicates the time within the track (or the time remaining in the track if the mouse button is clicked on the right hand field). The play list progress indicator is implemented in a tiny row of lights immediately above the track and time indicators. The track progress indicator is implemented in a tiny row of lights immediately below the track and time indicators.

When the mouse pointer is placed over the small-state display, a control tray pops out from the player, as shown in FIG. 21. This control tray contains the navigation controls found in the other two display modes. To return to the mid-size mode, the user clicks on the up button. To return to the large display mode, the user clicks on the double-up arrow button. In the small display mode, the hardware control buttons are located on this pop-out control tray, on the left side. The small state buttons on the left of the pop-out tray provide the play, stop, pause, track forward, track back, and file functions that correspond to the similar functions in the large-display mode.

Notably, the button tray slides out of the display as soon as the mouse pointer is placed over the display. No click of the mouse is required to pop the tray out.

The button-tray configuration shown in FIG. 21 appears whenever the unit is located in the top half of the computer screen. If, on the other hand, the unit is located on the bottom half of the display screen, the button tray will pop out

of the top of the unit as shown in FIG. 22. The functionality of the buttons on the button tray is identical no matter if the tray pops out of the bottom or the top of the unit. If the small-size display is dragged from the lower half of the screen to the upper half of the screen, the button tray will flip to its appropriate position when the equator of the screen is crossed.

Normally, the bottom portion of the button tray contains an alphanumeric display which displays the name of the track currently being played. When the mouse pointer is placed over a button, the function of that button is temporarily displayed on this alphanumeric display. When the mouse pointer is placed over the play list progress indicator or track progress indicator, this alpha numeric display will display the name of the track corresponding to that position, or the time within the track, respectively. The user can jump to any desired track or any desired time within a track by clicking on the track progress indicator and/or the play list progress indicator in this mode as well.

The various display modes can be selected using the up/down arrows on the navigation buttons as described above. Alternatively, the user can toggle through the display mode by double clicking on an inactive area of one of the displays (corresponding to the chassis of the unit). When the user double clicks on the large display mode, the display will shift to the small display mode. When the user double clicks on the small display mode, the display will shift to the mid-size display mode. Finally, when the user double-clicks on an inactive area on a mid-size display unit, the large display unit will appear.

The up and down buttons are context sensitive. For example, when the skin setup mode is selected, the up and down

arrow will toggle through the various available skins. When the visual mode is selected, the up and down buttons will toggle between the various available visual effects. Notably, the up and down buttons are always visible - they do not appear and disappear. In addition, their functionality is conserved between the various display modes. As a result, multiple sets of independent selectors for each perimeter are not needed, and the up and down buttons can be used for performing all selections.

In addition, the functions of the navigation control buttons, the play/stop button, the pause button, and the track forward and back buttons operation are conserved between modes.

By using the pop out button draw, the small-state modes uses a just-in-time philosophy, where the user is presented with options only when the user indicated that he wants to change an option. Unique features of this mode include the following: First, the draw pops out of the window, and is not a sub-window that pops out within a larger window. Second, the button draw will pop out of the small-state display even when the player is not the active window in a windows operating system computer. Third, the button tray includes control buttons--not a menu of text items. Fourth, the direction in which the tray pops depends on the position of the window on the screen. Fifth, the use of a pop-out button tray consumes less space than a text based pop down menu.

Optionally, advertisement or commercial output may be output in sync, or alternatively not in sync, with the audio content being played.

Optionally, in the audio control mode, the user can manipulate the equalization settings by clicking on the equalization curve itself displayed in the display window and dragging the curve.

Optionally, equalization presets can be used to compensate for the frequency response characteristics of output devices made by particular manufacturers. In this case, the hardware manufacturers would provide an equalization curve file. This file could then be selected by referencing the name of the manufacturers (e.g., by naming the file "Logitech USB speakers").

When the file information object in the visual mode display is clicked, the unit dynamically generates an HTML output. Optionally, it may also link to a web site by referencing either a URL encoded in the audio source or by providing the title and artist of the song being played to a search engine, and capturing the output of the search engine. A graphic for the visual mode may also be downloaded from the Internet by referencing a search engine in a similar manner.

The methods of implementing virtual hardware devices (e.g., virtual buttons and volume controls) using a mouse as a pointing device are well known.

While the present invention has been explained in the context of the preferred embodiments described above, it is to be understood that various changes may be made to those embodiments, and various equivalents may be substituted, without departing from the spirit or scope of the invention, as will be apparent to persons skilled in the relevant art.

SONIQUE™ CONTEXTUAL HELP SYSTEM -

SELECT A HELP TOPIC:

01. Sonique Installation and Registration
02. First Steps
03. Mid-State Mode
04. Navigation Console and the Navigation Screen
05. Music Download Screen
06. Playlist Editor Screen
07. Visual Mode Screen
08. Setup Options Screen
09. Info About Screen
10. Audio Enhancement Screen
11. Small-State Mode
12. Uninstalling Sonique
13. Sonique Quickstart
A1. Tips & Tricks
A2. Visual System Tips

Need more help? Read the sonique FAQ at: www.sonique.com/faq.html. Most of your questions will be answered there.
Get the latest version of sonique - visit www.sonique.com.

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Help System Version .90

SONIQUE™ CONTEXTUAL HELP SYSTEM -

ADDITIONAL HELP TOPICS

INTRODUCTION

Installing Sonique is fast and easy. The installer will extract Sonique's program files to your hard drive, create a program group and place icons on your desktop and within your start menu.

A PREVIOUS VERSION OF SONIQUE IS INSTALLED

Ensure that Sonique is ***not running*** before you attempt to install the new version. Take note of where on you hard drive (which folder) your previous version is installed to. Make sure the new version installs to the same folder and overwrites the old files.

THE INSTALLATION PROCESS

Once you have downloaded the sonique setup exe, double-click it to begin installation.

1 - You will be asked if you would like to install Sonique to your computer. Click Yes if you want to continue the installation.

2 - You will be prompted to shut down any programs you are currently running. It is suggested that you do so. Once you have shutdown all other programs, click next to continue.

3 - The next prompt asks you to agree to the Sonique End User License Agreement (EULA). If you agree to all the terms, press the "Yes" button.

4 - You are then given the option to specify an install path (folder in which to place Sonique's program files). The default install location is `c:\Program Files\MediaScience\Sonique`. You may change this if you wish by hitting the "browse" button (*if you have a previous version of Sonique installed, please see above*).

5 - Next, you are asked to specify a program folder in which to place start menu icons. The default is Sonique. You may specify an alternate name if you wish. Click next to continue.

6 - You will then be shown a screen that reviews what you've specified so far (install location, etc). If you approve, click next to continue.

7 - Next, a box will appear asking you to select the types of files for which you'd like Sonique to be your default player. Check the boxes for the file types you'd like to have Sonique play by default and click next.
NOTE: It is highly recommended that you check at least the first two boxes.

8 - The next box will ask you to select the type of internet connection you have. Select the appropriate option and click next. If you are behind a firewall or use access the internet via a proxy server (this is common if you are using Sonique on a LAN), check the "proxy" box and fill in the address and port of your proxy server. This information is available from your system administrator.

9 - Sonique will now install. After it has extracted the Sonique program files to your hard drive, you will be asked if you would like to view the README file and whether you want to LAUNCH sonique right away. Check the boxes next to the options you prefer, or leave them blank if you wish. We suggest that you check both boxes. The README file may contain important information concerning the latest version of Sonique. Sonique should launch and play a sample MP3 file. If you hear the file play, Sonique is setup properly.

CONGRATULATIONS! YOU'VE SUCCESSFULLY INSTALLED SONIQUE

THE REGISTRATION PROCESS

When you run Sonique for the first time, a dialog box will appear asking you to register Sonique. Sonique

is free, you will not be charged. Enter your email address in the form provided as well as your name to personalize your copy of Sonique . If you want to receive the Sonique Newsletter check the the box. The Sonique Newsletter is sent to subscribers weekly via email. It contains news and information about Sonique, as well as a listing of the downloadable music posted on our music site, music.sonique.com for that week. After filling in both fields, click the "Register Now" button to complete the registration process.

We will never give out or rent your personal information to another company.

ADDITIONAL HELP TOPICS

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SONIQUE™ CONTEXTUAL HELP SYSTEM -

ADDITIONAL HELP TOPICS

The Sonique Graphical User Interface

Sonique's Graphical User Interface (GUI) is encompasses three modes, Small-State Mode (SSM), Mid-State Mode (MSM), and the Navigation Console (NC). When you run Sonique for the first time it starts in the Navigation Console.

The Navigation Buttons

The four light blue icons in the upper right corner of the NC are navigation buttons that are present in all of the Modes of Sonique. These buttons allow one to flow from state to state, access help, minimize and close Sonique. The button functions are as follows:

navigation buttons in the NC

- Jump down one mode (Mid-State Mode).
- Jump down two modes (Small-State Mode).
- Open the Help File specific to the Mode/Screen you are in.
- Minimize Sonique.
- Exit Sonique.

- Jump forward one screen.
- Jump back one screen.
- Jump to NAVIGATION menu.

In other modes (Mid-State Mode, Small-State Mode) the navigation buttons change slightly. In Small-State Mode the is replaced by to jump directly to the Navigation Console. In MSM, double arrows do not appear since from that mode, it is only possible to jump either up or down once.

The NC has three special Navigation buttons: , for moving through the various settings and control screens. These buttons are described further in the Visual Mode section of the Sonique Help Documentation

Jumping Between Modes Without Using the Navigation Buttons

You can also jump between modes of Sonique by using mouse and keyboard shortcuts. The mouse shortcut is to double click on Sonique's gray chassis. Double-clicking with the right mouse button will move the state from SSM to MSM, MSM to NC, and NC to SSM. Double-clicking with the left mouse button will do the same thing but in reverse order. The keyboard shortcuts are described in Appendix 3.

Playback Control Buttons

There are four buttons that are used in all modes for playback control. These buttons are as follows:

Play/Stop Toggle. When this button is hit it changes from play to stop and vice versa.

Pause. This button will pause the music, hitting either stop or pause again will resume the music. You can still go to the next or previous song while paused, but you cannot seek while paused.

Previous Song, Next Song. Hitting the back arrow will move to the beginning of the previous song in the playlist. Hitting the forward arrow will move to the beginning of the next song in the playlist.

Using Knobs in Sonique

All knobs in Sonique work in the same way: position the mouse cursor over the knob and hold down the left mouse button. The knob responds to x-axis (vertical) mouse motion. If you want to move the knob clockwise, push the mouse up. Move the mouse down to move the knob counter-clockwise. Any horizontal mouse motion is ignored. With a little practice, knob use in Sonique is very easy.

File Input and Playback Mode Buttons

Open an audio file or playlist. This button will open an explorer window that will allow you to load files into Sonique.

N/A Loop All/Loop One. Hitting this button will first make it glow blue, indicating that it is looping all of the songs in the playlist. When you hit it a second time it will glow green, indicating that it is looping the song currently playing.

N/A Shuffle play. The Shuffle button will play the current playlist in a random order. Changing the playlist, hitting stop, or turning shuffle off then on will reset and reorder the shuffle.

Opening and Playing a File

There are three ways to open and play a song. The first and simplest way is to drag and drop the file onto sonique. By default, dragging any file that is of a supported type onto sonique will add that song to the playlist and play it. This behavior can be changed by using the GENERAL area of the Setup Options. In addition you may drag and drop multiple files onto sonique at once or even directories.

The second way to play a file is use the "open file(s)" button in any of the modes (images of the open file(s) buttons are displayed above). When you hit the button, a standard windows dialog will appear. Use this dialog just as you would any other open file dialog -- browse to the folder that contains the file you want to play, select it, and then click OPEN. You may also use this dialog to open an internet mp3 stream. Type the URL of the stream into the lower input form and click OPEN URL.

The third way to play a file is to double-click on it. However this only works if Sonique's file associations are setup properly. You can set file associations in Setup Options.

.cda	.pls
.wav	.pl
.it	.m3u
.xm	
.s3m	
.mod	
.mp3	
.mp2	
.mp1	
.m2a	
.mpa	

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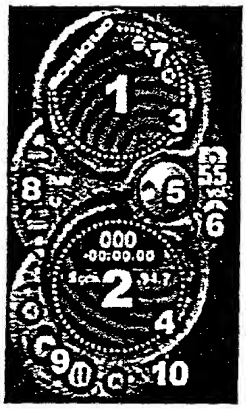

KEY MID-STATE MODE FEATURES:
In Brief
1 :: Visualization Display Window
2 :: Song Information Window
3 :: Playlist Progress Indicator
4 :: Song Progress Indicator
5 :: Jog Wheel
6 :: Volume Control Knob
7 :: Navigation Buttons
8 :: Playback Mode Buttons and the Navigation Mode Button
9 :: Playback Control Buttons
10 :: Chassis

In Brief:

Mid-State Mode is the middle of the three available play modes in Sonique. Unlike Small-State mode, it can display the same information and has all the same buttons as Visual Mode, but in small, streamlined package.

1 : : Visualization Display Window

The Visualization Window is where audio sensitive graphics are displayed. The Visualizations (Vis's) are in the form of plugins that reside in the Sonique directory with the *.svp (sonique visual plugin) extension. To change which Vis is being displayed, just move your mouse over the window and a green tab will slide up out of the bottom of the window. By clicking on the right and left arrows of the tab you can change the Vis that is displayed. Incidentally, whatever Vis is selected to display in MSM is also going to appear in EM. Wrapped around the Vis Window is the Playlist Progress Indicator, which is described below. Information on how to use and add plugins is in the Using and Adding Plugins area of the Sonique Help Documentation.

2 : : Song & General Information Window

The Song & General Information Window is where all the textual information from Sonique is displayed in MSM. The primary function of this window is to display song information while that song is being played. In the blue tab at the top of this window is the number of the song in the playlist, and under that is the current amount of playtime that has elapsed for that song. By clicking on the elapsed time, you can toggle it to display the remaining song time as well. In the main area of the window is the file name of the song (example: music.mp3) and the ID3 tag name of the song (if it exists). In addition to song information, this window displays other context sensitive text relating to various functions of Sonique. Functions of all of the buttons and knobs are displayed in this window, as well as seek-to information. Wrapped around the Song Information Window is the Song Progress Indicator.

3 : : Playlist Progress Indicator

The Playlist Progress Indicator is not only the sole indication of where in the playlist you currently are (in MSM), but it is the easiest way to navigate to different songs in the playlist without going to the playlist window in EM. All of the dots together represent 100% of the total time in the playlist, as the songs play, the grey dots fill with color from cyan to purple. Putting the mouse cursor over the Playlist Progress Indicator will cause the Song & General Information Window to display what song in the playlist that that area represents. For example, if there are three songs in the playlist of equal length, the first third of the area will represent the first song, the second third the second song, and so on. If one song is longer, then it will take up a greater percentage of the area. Clicking on the Playlist Progress Indicator will cause Sonique to jump to the beginning of the song that is displayed in the Song & General Information Window. The ability to use this feature of Sonique will greatly enhance it's functionality for users with very

large playlists, as it is difficult to get to the end of the playlist by clicking on the "next track" button repeatedly.

4 : : Song Progress Indicator

The Song Progress Indicator is similar to the Playlist Progress Indicator except that this Indicator represents the song that is currently playing. As the song plays, the grey dots will fill with color from green to red. Putting the mouse cursor over the Indicator will cause the Song & General Information window to display the elapsed time of the song to that point, and the total time of the song. Clicking on the Indicator will jump to and play from that point in the song. As you can see, this feature effectively removes the need for CD Player-like seek buttons. With the ability to jump instantly to any point in the song, there is no need to slowly seek over the song. However for those who desire a scanning control, there is the Jog Wheel.

5 : : Jog Wheel

The Jog Wheel is the scanning control for Sonique. General knob use is discribed under the First Steps of the Help Documentation. The jog wheel is similar to the seek/scan buttons on a CD Player. Spinning the Jog Wheel clockwise will advance the song and spinning it counter-clockwise will reverse it.

6 : : Volume Control Knob

The Volume Control Knob is pretty self explanatory. General knob use is discribed under the First Steps of the Help Documentation. Spinning this knob clockwise increases the volume, and counter-clockwise decreases it. While manipulating the volume, the Song & General Information Window will display the percentage of the total volume that you have selected.

7 : : Navigation Buttons

The navagation buttons are described fully in the First Steps section of the Sonique Help Documentation.

8 : : Playback Mode Buttons and the Navigation Mode Button

The playback mode buttons are described fully in the First Steps section of the Sonique Help Documentation. However there is one special addition to the Playback Mode Buttons in MSM, The Nav Button : . The Nav button will jump Sonique directly to the NC Navigation Screen. This is necessary because if you move from NC to MSM using the navigation buttons or a shortcut, when you return to NC it will be opened to the same screen you last left it in. By hitting the Nav button, you always go to the Navigation Screen.

9 : : Playback Control Buttons

The playback control buttons are described fully in the First Steps section of the Sonique Help Documentation.

ADDITIONAL HELP TOPICS

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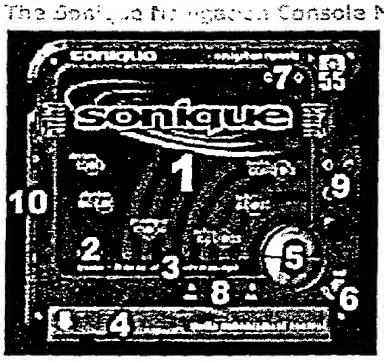
SONIQUE™ CONTEXTUAL HELP SYSTEM -

ADDITIONAL HELP TOPICS

The Sonique Navigation Console Navigation Screen



INDEX:

In Brief
1 :: The Navigation Screen
2 :: Version Number
3 :: Song & General Information Display
4 :: Audio Enhancement Control Tray
5 :: Page Up / Page Down Buttons
6 :: Volume Control Knob
7 :: Navigation Buttons
8 :: Playback Mode Buttons
9 :: Playback Control Buttons
10 :: Chassis

In Brief

The Navigation Console is the heart of Sonique. From this screen you may access all of Sonique's more advanced functions. The Navigation Console serves as a menu and also a portal to music and information resources on the internet.

1 : : The Navigation Screen

The Navigation Screen is the central hub of all of the Screens of the Navigation Console. There are six text icons on in the Navigation Screen that allow you to access the other screens of the Navigation Console. The screens are: Music Download, Playlist Editor, Visual Mode, Setup Options, Info About, and Audio Controls. Each of these areas has its own Help Document and is explained in detail there. A brief description of each of the screens is displayed in the Song & General Information Display when you position your mouse cursor over the icons.

2 : : Version Number

The Version Number is pretty self explanatory, it tells you which version of Sonique you have. This information is useful when you are trying to get help from Sonique Support and to see if you have the most recent version of Sonique.

3 : : Song & General Information Display

The Navigation Screen Song & General Information Display is not as important as it is in MSM, but it still contains some useful stuff. By default, it will display the name of the song that is currently being played, and if the mouse cursor is positioned over any of the buttons or icons, it will display a brief description of it.

4 : : Audio Enhancement Control Tray

The Audio Enhancement Control Tray can be accessed by clicking on it no matter what screen is displayed in the Navigation Console's main window. The Tray allows you to set the 20 band Graphic Equalizer and manipulate the pitch, balance, and amplitude of the sound file. The Audio Enhancement Tray is explained in greater detail in the Audio Controls Screen help document.

5 : : Page Up and Page Down Buttons

These Buttons are generic page-up and page-down buttons for use in the different screens. They don't do anything in the Navigation Screen, however.

6 : : Volume Control Knob

The Volume Control Knob is pretty self explanatory. General knob use is discribed under the First Steps of the Help Documentation. Spinning this knob clockwise increases the volume, and counter-clockwise decreases it. While manipulating the volume, the Song & General Information Window will display the percentage of the total volume that you have selected.

7 : : Navigation Buttons

The navagation buttons in the top row are described fully in the First Steps section of the Sonique Help Documentation. However, the three buttons below the standard navigation buttons are specific to the NC. Their purpose is to make navigating the different screens of the NC faster and easier. The general function of the buttons are as follows:

- The Back button, this will take you back to the screen that you were looking at previous to the current one, but skipping over the Navigation Screen.
- The Nav button, this will take you back to the Navgation Screen.
- The Forward button, if you clicked the Back button, this will take you to where you were when you clicked it (skipping over the Navigation Screeen).

Example usage: You open up the NC and click on "visual Mode", this takes you to the Elarged Mode Screen. Then you decide you want to play with the vis settings, so you click the Back button (or right click in the visual Mode Screen), and you get back to the Navigation Screen. Then you click on "Setup Options," this takes you to the Setup Options Screen where you click on the "Vis FX" tab. You play with the settings, and now you want to see how that affects the vis screen in visual Mode. Instead of having to go back through the Navigation Screen, you can click the Back button and go *directly* to visual Mode. Then when you hit the Forward button you are taken directly to Setup Options. This way you can shortcut back and forth between two screens without having to click on a Navigation Screen icon every time. Then to get back to the Navigation Screen (to access the Playlist Editor for example), you click on the Nav button.

8 : : Playback Mode Buttons

The playback mode buttons are described fully in the First Steps section of the Sonique Help Documentation.

9 : : Playback Control Buttons

The playback control buttons are described fully in the First Steps section of the Sonique Help Documentation.

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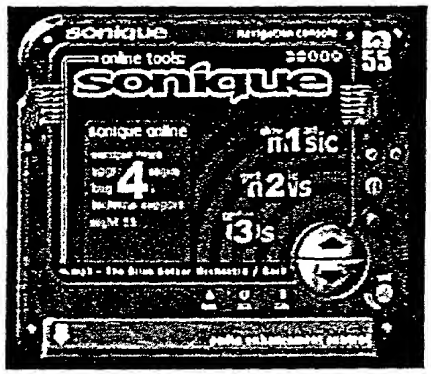
SONIQUE™ CONTEXTUAL HELP SYSTEM -

ADDITIONAL HELP TOPICS

The Sonique Music Download Screen



INDEX:
In Brief
1 :: Download Music
2 :: Get Music News
3 :: Find Music
4 :: Sonique Online

In Brief:

The Music Download screen in Sonique functions as a portal to mp3 and music resources on the web. It also provides an easy way to access commonly used portions of the sonique web site. All of the icons on this screen are in actuality links to pages located on sonique.com. You must be connected to the internet in order for Sonique's online tools area to work.

1 : : Download Music

This Icon will open your default Browser and display a listing of links to sources of MP3 files and MP3 broadcasts on the internet. This is a great place to start when you are looking for new music.

2 : : Get Music News

Clicking this link will open your browser and display a list of links to popular music and mp3 news sites.

3 : : Find Music

Clicking this link will take you to a set of search engines that are helpful for finding music online.

4 : : Sonique Online

This is a set of links to helpful pages on the Sonique web site. Clicking any of the links will open that area of the Sonique web site in your browser.

ADDITIONAL HELP TOPICS

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SONIQUE™ CONTEXTUAL HELP SYSTEM -

ADDITIONAL HELP TOPICS

The Sonique Playlist Editor

INDEX:
In Brief
1 :: The Playlist Editor Screen
2 :: The Playlist Control Functions
3 :: Scroll Buttons

In Brief:

The Playlist Editor allows you to create, edit, load and save playlist files.

1 : : The Playlist Editor Screen

Playlists can be loaded just like standard music files and so may be loaded in any mode, however it is only in the Playlist Editor that you can organize and save them. Most of the Playlist Editor Screen is taken up by the file list. Navigating through the list is pretty easy once you get the hang of it. Clicking on a song title will select it, once selected, you can either click on it again to play it, or use the Scroll buttons to move the song within the playlist. Holding down the Ctrl or Shift key will allow you to select multiple files, and you can move them using the same process. You can scroll through the list using either the Scroll buttons or by using a mousewheel while the cursor is positioned over the Playlist Editor Screen.

2 : : The Playlist Control Functions

There are seven Playlist Control Functions, they are:

sort This will sort the list alphabetically, if it is already sorted, it will reverse the sort.
shuffle This will shuffle the playlist.
reverse This reverses the playlist
clear This clears the playlist
add This is basically the same as the open file button, except that regardless of what settings you have saved, it will always add the song to the playlist without playing it.
remove This deletes the current selected song from the playlist.
save This saves the playlist to a file, you are prompted for a location and a name. Click "Save" to save the playlist.

3 : : Scroll Buttons

The Scroll Buttons are very important in the Playlist editor. They can be used to navigate lengthy playlists and to rearrange the order of selected items.

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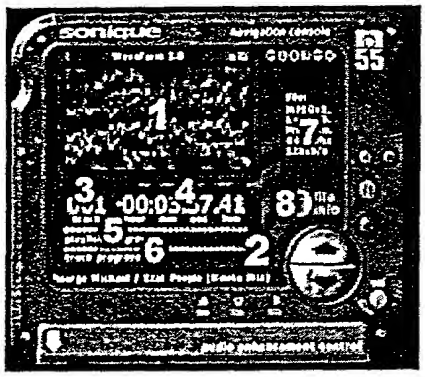
SONIQUE™ CONTEXTUAL HELP SYSTEM -

ADDITIONAL HELP TOPICS

The Sonique Navigation Console Visual Mode Screen



INDEX:
In Brief
1) Visualization Display Area
2) Information Display Area
3) Track Number
4) Time Output
5) Playlist Progress Bar
6) Track Progress Bar
7) Extended Song Information
8) File Info

In Brief:

Visual Mode provides a larger way to view file information and visualizations than Mid-State Mode. Most of the controls and information are identical to Mid-State Mode, but provided in a larger space.

1 : : Visualization Display Area

The Visualization Screen ( ) is where audio sensitive graphics are displayed. The Visualizations (Vis's) are plug-ins that reside in the sonique/vis directory with the .svp (sonique visual plugin) extension. The visualizations that come with Sonique are VU Sweep 1.0, Spectrum 1.0 and 2.0, and Waveform 1.0. You can switch between the different vis's with either the Page Up / Page Down buttons (Big Gray Buttons). Additional visualization plug-ins may be obtained at www.sonique.com/plugs.html.

The Visualization displays the visualizations within the Navigation Console of Sonique. You can change the visualization that is displayed by clicking on the large grey arrow buttons. At the top of the Visualization Display are two icons. The smaller square is the Full Window Toggle. Clicking it will cause the visualization to take up all of the screen area in EVERY screen of the Navigation Console, this is called . Clicking the Full Window toggle again will turn off .

The larger square will enable . This mode requires ***Microsoft DirectX*** to be installed. To display instructions for using just select "No Visual", or press the comma or period keys until it displays the instruction screen. Also, the instructions will be displayed if there is not a song being played in Sonique.

2 : : Information Display Area

This area displays track, time and progress information. You can switch between time elapsed and time remaining by clicking anywhere on the track or time. You can skip to another song by clicking on the playlist progress indicator. You can skip to another part of the current track by clicking on the track progress indicator.

3 : : Track Number

Current song's position in the playlist. You can view the songs in the current playlist by either selecting the track button above the visual display area, or by going to the playlist editor.

4 : : Time Output

Displays either the time elapsed or time remaining in the current track in hours, minutes, seconds and hundredths. You can toggle between time elapsed and time remaining with a single click.

5 : : Playlist Progress Bar

This progress indicator gives a graphical representation of progress through the current playlist. You can skip to different parts of the playlist by clicking any point on the bar. The song referenced by a given part of the bar is displayed in the status display. When you skip between songs, you will always skip to the beginning of the song.

6 : : Track Progress Bar

The Track Progress bar shows the progress through the current song. You can skip to any point in the song by clicking on the Track Progress bar.

7 : : Extended Song Information

This small screen displays detailed information about the current track such as file type, sample rate, bit rate, number of channels, etc.

8 : : File Info

Clicking on the File Info icon will open up your default browser to display the ID3 tag information (or other file information for mods or other files) for a file in an html file.

ADDITIONAL HELP TOPICS

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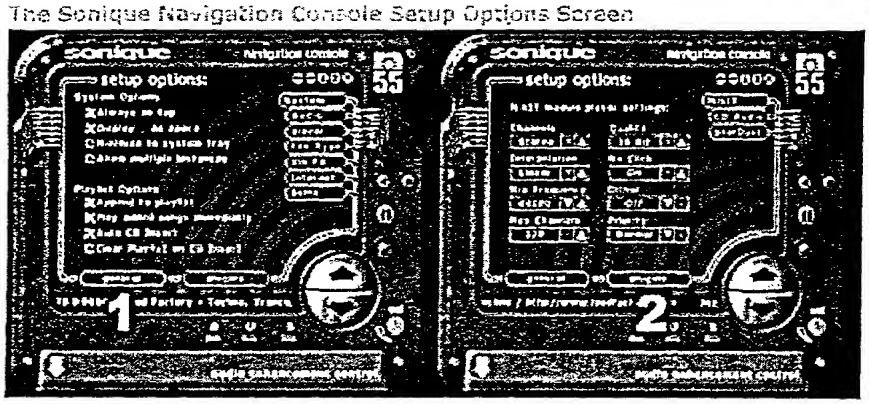
SONIQUE™ CONTEXTUAL HELP SYSTEM -

ADDITIONAL HELP TOPICS

The Sonique Navigation Console Setup Options Screen



INDEX:
Tab Descriptions
In Brief
1) General Settings
2) Plug-ins Settings

TAB DESCRIPTIONS:

General Settings:
1 - System Tab
2 - Audio Tab
3 - Visual Tab
4 - File Types Tab
5 - Vis FX Tab
6 - Internet Tab
7 - Skins Tab

Plug-In Settings:
1 - MikIT Plug-in Tab
2 - Stardust Plug-in Tab
3 - CD-Audio Plug-in Tab

In Brief:

The Setup Options area allows one to configure Sonique, set preferences, and make customizations. Setup Options is divided into two areas, General Settings and Plug-in Settings. Each area contains a unique set of options and tabs. The General Settings are displayed by default. To get to the Plug-in Settings, just click on the "plug-ins" button at the bottom of the screen.

Both areas have a similar layout: on the right is a set of tabs that access different pages of configurable settings, on the left the various pages of settings are displayed. If you click a tab, the options associated with that tab will appear on the left. The currently selected tab will appear slightly longer than surrounding tabs and blue instead of green.

1 : : General Settings

System Tab

- This option toggles whether or not you want Sonique to remain always visible even when you are using a window that would normally cover it. This option applies to all of the states of Sonique.

- This option will cause Sonique to display any underscores (_) in a filename as a space. So for example, if you had a song whose file was named "this_is_my_song.mp3", and you had this option checked, Sonique would display the name of the file as "this is my song.mp3".

- When this option is unchecked, sonique will no longer have a tab on the start bar when it is running, instead the functionality of the taskbar tab would be within the Sonique Quickstart icon in the system tray. Double click on Sonique Quickstart to maximize Sonique once it is minimized.

- When this option is checked, whenever a file is added to sonique, it is appended to the playlis instead of replacing the playlist. If it is not checked, new files will replace whatever is in the playlist. So, for example, let's say that I had ten songs in the playlist, and I had this option checked. If I found a new song that I liked, I could double-click it, drag and drop it on Sonique, or load it with a button, and it would be added to the end of the playlist. If this option was unchecked, the playlist would be cleared and the one file would replace it. It would not play the song, however, unless "Play added songs immediately" was checked.

- This option forces Sonique to play the song, or first song of a group of songs, immediately after it is added. So, if this option were checked and I was listening to a song, and I found another one that I liked, when I opened it, it would stop playing the song that I was listening to and play the new song.

- When this option is checked, Sonique will automatically load all of the tracks of an audio CD into the playlist when you insert it into your CD-ROM drive.

- This option will force Sonique to clear the playlist when the audio tracks from an audio CD are automatically loaded into the playlist. This option is only works if you have "Auto CD Insert" checked.

Audio Tab

- This will let you select which device you want to use to output sound information from Sonique. You can either output sound information to an audio device, or to a file.

Selecting different output devices is useful if you have multiple soundcards or a soundcard that has multiple output channels. Then you can select the general Sonique option "Allow multiple instances" and have different instances of Sonique playing different songs.

If you select "WAV disk writer" and specify a "WAV disk writer path" (see below), the file that is being played will be saved as a .wav file (with the same name as the original file; so if the name was filename.mp3, it would be saved as filename.wav). CD audio cannot be saved as a WAV file due to the fact that the CD audio is not processed by the soundcard, but merely passed through.

- If you have the Output selected to be "WAV disk writer," this option allows you to choose a directory to save the .wav file in. If you do not specify a directory, Sonique will prompt you for one.

Visual Tab

- This slider allows you to set the frame rate of the animated transitions from screen to screen. Moving the slider to the left decreases the number of frames that Sonique displays between screens, moving it to the right will increase them.

- This slider allows you to adjust the speed at which the animated transitions move. For example, if you have this slider set at it's maximum setting, sonique will go from screen to screen very quickly.

File Types Tab

- These are the file types that Sonique can play. In actuality, one could rename a filename to whatever they wanted to and Sonique could play it, but this is a rare case. Most files that you will find will be one of these types. If you check the box next to the file type then its icon will become the icon of a Sonique file type, and when you double click on the file, it will open up in Sonique. Depending on how your system is configured, if you change the associated file types, the icons for those files may not change until

you restart your computer.

Vis FX Tab

- The Visualization Effects Settings allow you to modify the way that the Visualizations are displayed in MSM and NC Visual Mode. These settings will affect all of the plugins that support these functions of Sonique. If a plugin shows no reaction to these settings, it is not because Sonique is malfunctioning, it is because the author of that plugin did not write in support for them.

- This will blur the visualization. It is more of a motion blur than an overall blurriness effect. An impression of the displayed image remains after the original image moves or changes and slowly fades.

- This causes the image that is being displayed to emit "smoke" of whatever color it consists of. So if the vis is displaying a red square, it will emit red smoke. This effect is most noticable in the Spectrum and Waveform visualizations.

- This effect zooms in on the visualization image as it changes. It is a motion trail, so to speak, the complement of the blur effect. The "zoom speed" slider and "reverse" checkbox only affect this effect.

- This reverses the direction of the zoom. It causes the image to look as if it is moving away from you.

- This slider changes the amount that the visualization is affected by the visualization effects. Putting the slider at its maximum setting (all the way to the right) will change the way the visualization looks by a lot, whereas moving the slider more to the left will reduce the amout that the effect changes the visualization.

- This only affects the zoom effect. It lets you seet the speed at which the zoomed image reaches the edge of the visualization window. Increasing the speed basically makes the image look like it is moving toward you faster (or away from you faster, if you have reverse selected).

Internet Tab

- This lets you use a webproxy with Sonique. To enable it, check the "use webproxy" check box and click on the bar under that to input an address and port for the webroxy.

Skins Tab

- This tab allows you to manage and load alternate "skins" for Sonique. The current skin is displayed in the thumbnail image with the author of the sking listed below along with the author's contact information. You can cycle through any skins you have with the large gray page up/down buttons. To learn more about skins, see the Appendix 5.

2 : : Plug-in Settings

MikIT Plug-in Tab

- MikIT is the decoder that Sonique uses for module playback. Any files with the following extensions are considered modules: .xm, .s3m, .it, and .mod. MikIT was written by Jean-Paul Mikkers for Sonique in an exclusive license agreement.

- The Channels setting allows you to select wether you want to play the modules in stereo sound or mono sound.

- The Quality setting will toggle playing the modules at either 16 bit or 8 bit quality. Higher is better.

- Interpolating the song makes the song play smoother. It is like anti-aliasing for module files. It uses more CPU but it makes the song sound much better.

- No click clips the very beginning and end of the samples off to ensure there is no clicking white noise when the sample starts or finishes.

- The Mix Fequency is the number of times per second that the sound file (in the "quality" amounts) is sampled to the sound card. A higher number is better. So if you have this set at "44100" and the quality at 16 bits, it is processing song in 16 bit segments at the rate of 44,100 times a second.

- Dithering is another method of making a song playback smoother. Like interpolation, this takes up more CPU but makes the song playback better.

- The max channels is the maximum number of tracks that the module file is allowed to use. Using more tracks eats more CPU and ram and so users of slower machines may want to lower the max channels. But usually the highest setting (128) is fine.

- Priority is the level of importance that you want to associate with module playback. If you set this to "Highest" then Windows will give the song playback highest priority when allocating resources to other simultaneously running programs. This could cause other programs to run more slowly while Sonique is running. If you lower the priority, then your other programs may run faster, but Sonique might "stutter" when system resources run low.

Stardust Plug-in Tab

- StarDust is the mp3 decoder that was written specifically for Sonique by Tony Million, designer of the AudioEnlightenment decoder. StarDust is recognised as being the most robust and highest quality decoder of MPEG Audio Layers 1, 2, and 3.

- This option bar lets you select either Pentium/P-II or AMD/Cyrix/486 optimizations for the StarDust decoder to use.

- This is similar to the "Priority" option available for the MikIT module decoder. It tells the operating system that the StarDust decoder is to be given high priority when allocating system resources to simultaneously running programs. This could cause other programs to run more slowly while Sonique is running. If you un-check this setting, then your other programs may run faster, but Sonique might "stutter" when system resources run low.

- These settings apply when Sonique is opening an mp3 at an URL. The Buffer is the amount of RAM that is used to buffer the stream. The PreBuffer is in effect a buffer for the buffer. Increasing these settings almost always results in better performance, but it causes Sonique to use more system resources.

- This option will cause Sonique to write the mp3 stream to a file on your hard drive.

CD-Audio Plug-in Tab

This option makes Sonique record the CD audio in chunks as it is being played to output visualization information. The visualization for CD audio is not as fast or accurate as it is for mp3 because of the complexity of the operation. This option causes Sonique to use more system resources during CD audio playback.

ADDITIONAL HELP TOPICS

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SONIQUE™ CONTEXTUAL HELP SYSTEM -

ADDITIONAL HELP TOPICS

The Sonique Navigation Console Info About Screen

INDEX:
In Brief
1) The Info About Screen
2) The Info About Icons

In Brief:

The Info About Screen gives lists credits and links to some Sonique distribution files.

1 : : The Infor About Screen

The Info About Screen is the area of the NC where you will be able to get access to information resources about Sonique. The most prominent area is the informations display window. This contains information about who worked on Sonique and what they did. Next to it are three links that will direct you to the readme file, what's new, and license. The icons are explained more in depth below.

2 : : The Info About Icons

In actuality, the Info About icons are really just links to locations on the internet gathered together in one area for the convenience of users. Each of the icons will open up your default web browser to html files located in the Sonique directory on your computer. The readme file is a file that contains information that we were unable to include in these help files due to various circumstances. Reading the readme file is highly recommended before you submit a bug or email Sonique Support about a problem. The "whats new" file is a list of all of the new features that were included into Sonique since the previous public release. The "license" file is a copy of the Sonique Beta License agreement.

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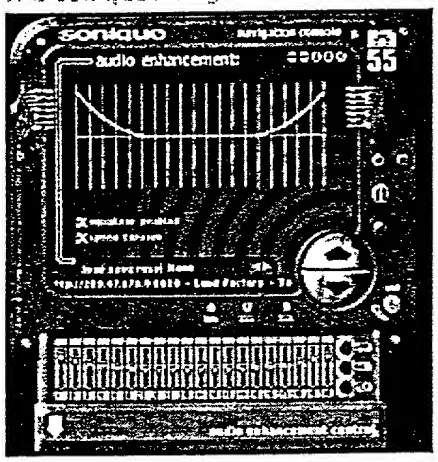
SONIQUE™ CONTEXTUAL HELP SYSTEM -

ADDITIONAL HELP TOPICS

The Sonique Navigation Console > Audio Enhancement Screen



INDEX:
In Brief
1) The Audio Enhancement Screen
2) Audio Enhancement EQ Graph and Options
3) Audio Enhancement Control Tray

In Brief:

The Audio Enhancement Controls allow the user various options for modifying the sound output of Sonique. These include a 20 band graphic equalizer, amplitude and balance control and pitch control. The controls are located in the drop down tray (4) while the screen is the right most menu item in the Navigation Console.

1 : : The Audio Enhancement Screen

The Audio Enhancement Screen is the area of the NC where you will be able to enable, manipulate, and save settings of the Sonique 20 band Graphical Equalizer. When you open the Audio Enhancement Screen, the Audio Enhancement Control Tray automatically slides out of the bottom of the Navigation Console. The EQ graph is the largest thing on the Audio Enhancement Screen and is basically a representation of the EQ settings in the Audio Enhancement Control Tray. Below the graph are two options, "equalizer enabled" and "spline tension." Below the options is the Save / Load Tab. These are described in the next section below.

2 : : Audio Enhancement EQ Graph and Options

As described in the previous section, the EQ graph is a representation of the settings in the Audio Enhancement Control Tray. By default, the graph and EQ are set to zero. The two options below the graph are "equalizer enabled" and "spline tension." The "Equalizer enabled" option enables the Sonique EQ. The "Spline tension" option forces the graphic equalizer into curves. So if you move the 9th band, the bands aroundit will move as well to create a curve. This is a feature that was added because we recognised that most people have their EQ in a curve anyway and this would save time.

How to Load and Save EQ Settings -

You use the Save / Load Tab (located directly below the EQ options) to save and load EQ settings. The Load button will cause a window to slide in over the EQ graph. Merely select a preset and Sonique will load that setting. Saving is a similar process, if you click on the save button, a window will slide in over the EQ graph that will allow you to save your current EQ in a preset slot. You can have a total of ten EQ presets in Sonique. In addition, there are five EQ presets that come built into Sonique. You can scroll through them by clicking on the small green arrows on the right side of the Save / Load Tab.

3 : : Audio Enhancement Control Tray

The Audio Enhancement Control Tray automatically slides out of the bottom of the Navigation Console when you open the Auto Enhancement Screen. The Tray allows you to set the 20 band Graphic Equalizer and manipulate the pitch, balance, and amplitude of the sound file. Setting the 20 band Graphic EQ is easy, just slide the desired slider up to

increase the volume of that frequency band. The left side of the EQ represents the bass of the song where the right side represents the treble. So, generally, increase the left sliders to increase bass, the middle sliders to increase mid-tones, and the right sliders to increase the treble.

This knob controls the amplitude output of the decoder. Sonique can increase or decrease the amplitude at which audio is decoded in addition to normal voluem control. This is useful for softer songs or songs that were recorded at too low a level. You can use the amp knob to get a louder sound even if the volume knob is turned up all the way. Amp takes effect *before* the vis, so if you have a song that isn't affecting the visualizations very much, you can increase its amplitude and it will.

This button controls the balance. It shifts the sound from right to left speaker channels.

The red knob is the pitch control. This knob controls the pitch and speed of the output of the player. You can play sound back as high as twice the recorded speed or as low as half the recorded speed.

ADDITIONAL HELP TOPICS

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sonique tm

SONIQUE™ CONTEXTUAL HELP SYSTEM -

ADDITIONAL HELP TOPICS

KEY SMALL-STATE MODE FEATURES:
In Brief
1) Track Number and Time Display
2) Song and General Information Marquis
3) Playlist and Song Progress Indicators
4) Visualization Blinkers
5) Navigation Buttons
6) Playback Buttons
7) Chassis

In Brief:

Small-State Mode is the smallest of Sonique's three play modes. Small-State Mode provides most of the control available in the other two modes, but without taking up a lot of screen space.

1 : : Track Number and Time Display

This is a simple display that shows the number of the track in the playlist that you are crrently listening to and the elapsed playing time of that song. If you click on the elapsed time of the song, it will change to show the remaining time for that song.

2 : : Song and General Information Marquis

The SSM Song & General Information Marquis is where Sonique outputs all of its useful information in SSM (other than track number and time remaining). By default, it will display the name of the song that is currently being played, and if the mouse cursor is positioned over any of the buttons or icons, it will display a brief description of it.

3 : : Playlist and Song Progress Indicators

The Playlist and Song Progress Indicators are located above and below the Track Number and Time display. These work exactly like the indicators in MSM (see the help documentation on MSM for more information) except that they are arranged in horizontal lines instead of in circles.

4 : : Visualization Blinkers

The Visualization Blinkers are the visualization that is added to SSM. The blue and green lights blink to the beat of the music, getting brighter the louder the output is. They are particularily responsive to bass.

5 : : Navigation Buttons

The navagation buttons are described fully in the First Steps section of the Sonique Help Documentation.

6 : : Playback Buttons

The playback buttons are described fully in the First Steps section of the Sonique Help Documentation.

ADDITIONAL HELP TOPICS

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SONIQUE™ CONTEXTUAL HELP SYSTEM -

ADDITIONAL HELP TOPICS

Uninstalling Sonique is fast and easy. The installer has placed uninstall information in the Sonique directory and an uninstall icon in the start menu.

THE UNINSTALLATION PROCESS

1 - Go to the start menu and in the programs section there should be a "Sonique" folder. Inside that is an "Uninstall Sonique" icon. Click on that icon.

2 - You will be asked if you are sure that you want to uninstall Sonique to your computer. Click Yes if you want to continue.

3 - Sonique will then remove all files that were installed when you installed Sonique. You may need to remove any Equalizer Presets or Playlists that you have created manually because the installer did not create those files. The Equalizer presets are saved in a file called SonEque.spf, and the playlists are saved as *.pl or *.pls, depending on what you saved them as. Once you have removed these files, you have successfully uninstalled Sonique.

ADDITIONAL HELP TOPICS

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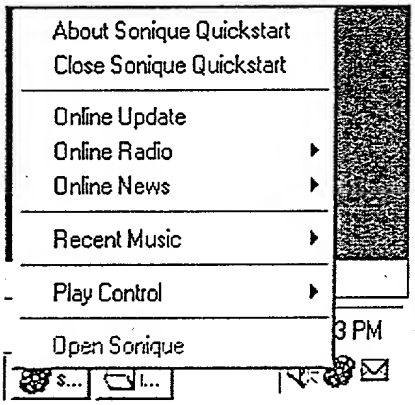
SONIQUE™ CONTEXTUAL HELP SYSTEM -

ADDITIONAL HELP TOPICS



KEY SONIQUE QUICKSTART FEATURES:

In Brief
1) About Sonique Quickstart
2) Close Sonique Quickstart
3) Online Update
4) Online Radio
5) Online News
6) Recent Music
7) Play Control
8) Open Sonique

In Brief:

Sonique Quickstart is a fast and easy way to control Sonique from the Windows system tray. It will start up whenever you run Sonique. From the right click context menu you will have access to powerful new features such as online update, radio, and news. Also included in the Quickstart menu are time saving features such as recent music, play, and stop. Use the Setup Options to disable Sonique Quickstart.

1 : : About Sonique Quickstart

This is a simple display that displays information about Sonique Quickstart. Your registration name and the Sonique License Serial Number are displayed here along with the Sonique License information.

2 : : Close Sonique Quickstart

This option closes and removes Sonique Quickstart from the system tray. Sonique will remain open if it is open.

3 : : Online Update

Online Update is one of the most powerful new features of Sonique Quickstart. Clicking on Online Update will bring up the Sonique Online Updates dialog window. This window contains a list of all of the items that your version of Sonique doesn't have installed. Click on one or more of the items and click "Upgrade" to download and install the new items. Sonique will close and restart after all of the installations have completed.

4 : : Online News

The Online Radio menu is a list of Online Radio Stations (streaming MP3 audio) that are collected here for your convenience. This list is updated periodically as you are online and more stations are available.

5 : : Online News

The Online News menu is a list of Online Music News webpages that are collected here for your convenience. This list is updated periodically as you are online with notifications of new information delivered directly to Sonique Quickstart.

6 : : Recent Music

The Recent Music menu is a list of the last ten files that you have played with Sonique. This includes

online streams as well.

7 : : Play Control

This menu item gives you easy access to commonly used play controls within Sonique. These controls include play (which changes to "stop" when a file playing), next song, and previous song.

8 : : Open Sonique

If you close the Sonique player while Sonique Quickstart is open, Quickstart will remain open. If you double click on the Sonique Quickstart icon or choose the Open Sonique menu item Sonique will be opened up.

ADDITIONAL HELP TOPICS

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SONIQUE™ CONTEXTUAL HELP SYSTEM -

WAV File Writing

Now you can save the file that you are listening to as a .wav file. Just go into Setup Options, and choose the Audio tab on the right. Change the "Select Output" to "WAV disk writer". Then click on the field below "WAV disk writer path:" to specify a path to write the .wav files to. Simply play an mp3 or module file to start the process.

Visualization FX Settings

Sonique .75 has new effects that can be applied to the visuals. From the vis fx tab in setup options you can enable blur, smoke & zoom individually or all at once. By trying different combinations of effects and levels, you can achieve many interesting results.

Audio Enhancement Tray

You can change the eq, pitch and amp settings from any screen in nav mode by clicking on the audio enhancement drawer. In order for changes to take effect, you must ensure that the ENABLED box is checked in the audio controls screen.

Animation Settings

You can change the speed of sonique's animation and increase the frame rate by going to setup options and clicking the visual tab. Turning down the animation slider is a good idea for machines with slower CPUs.

File Types

You can modify sonique's file association properties by clicking on SETUP OPTIONS and then clicking the FILE TYPES tab.

Playlist Item Moving

You can move tracks around in the playlist editor by "tagging" tracks with the ctrl or shift keys and then using the big grey arrow buttons.

Streaming

Sonique .90 supports streaming. To listen to an mp3 broadcast, set sonique as your default player for mp3 and playlist files, then click any link to an active webcast to have sonique stream it. Additionally, you may type the URL of any mp3 webcast into the lowest box of the file open dialog.

Double-Click Mode Change

Double clicking on the grey border of Sonique will change its state. Double-clicking with the right mouse button changes the state from small to mid to large and back to small. The right button double-click will do the same thing in the opposite direction, from large to mid to small and back to large.

CD Audio

Sonique supports CD Audio as well as data files. You can play tracks from your CD-ROM by clicking "explore" on your CD-ROM and then dragging the .CDA files into Sonique.

Online Tools

Use Sonique's online tools to find new music, get updates anc connect yourself to music on the web! Click ONLINE TOOLS from Sonique's navigation menu.

Loop

The loop button has two modes, loop one and loop all, when the loop button is pressed the first time and lights up blue, it is looping all the songs. When you press it again it lights up green, indicating that it is looping only one song.

The AMP Knob

"AMP" on the Audio Enhancement Control Tray is not just another volume control as some people have concluded. AMP actually stands for "Amplitude" and manipulates the amplitude of the sound wave-form.

ADDITIONAL HELP TOPICS

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SONIQUE™ CONTEXTUAL HELP SYSTEM -

Vis FX

Visualization Effects Settings

The Visualization Effects Settings allow you to modify the way that the Visualizations are displayed in MSM and NC Visual Mode. These settings will affect all of the plugins that support these functions of Sonique. If a plugin shows no reaction to these settings, it is not because Sonique is malfunctioning, it is because the author of that plugin did not write in support for them.

blur fx

This will blur the visualization. It is more of a motion blur than an overall blurriness effect. An impression of the displayed image remains after the original image moves or changes and slowly fades.

smoke fx

This causes the image that is being displayed to emit "smoke" of whatever color it consists of. So if the vis is displaying a red square, it will emit red smoke. This effect is most noticable in the Spectrum and Waveform visualizations.

zoom fx

This effect zooms in on the visualization image as it changes. It is a motion trail, so to speak, the complement of the blur effect. The "zoom speed" slider and "reverse" checkbox only affect this effect.

reverse

This reverses the direction of the zoom. It causes the image to look as if it is moving away from you.

effects level

This slider changes the amount that the visualization is affected by the visualization effects. Putting the slider at its maximum setting (all the way to the right) will change the way the visualization looks by a lot, whereas moving the slider more to the left will reduce the amout that the effect changes the visualization.

zoom speed

This only affects the zoom effect. It lets you seet the speed at which the zoomed image reaches the edge of the visualization window. Increasing the speed basically makes the image look like it is moving toward you faster (or away from you faster, if you have reverse selected).

ADDITIONAL HELP TOPICS

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Help System Version .90

WHAT IS CLAIMED IS:

1. A method of implementing a user interface for a program running on a computer, the method comprising the steps of:

presenting a user interface to a user, the user interface having at least three different user-selectable operating modes, wherein a size of a displayed region presented to the user in each of the at least three operating modes is different; and

presenting a different set of controls for controlling the program to the user in each of the at least three operating modes.

2. The method of claim 1, wherein each of the at least three operating modes has a different shape.

3. The method of claim 1, wherein a first one of the at least three operating modes has a first size, a second one of the at least three operating modes has a size of about one third of the area of the first size, and a third one of the at least three operating modes has a size of about one thirtieth of the area of first size.

4. The method of claim 1, wherein the operating modes are selected by clicking on a change-size control region.

5. The method of claim 1, wherein the operating modes are selected by double-clicking on a background portion of a current operating mode.

6. The method of claim 1, wherein the program comprises a media player application program, and each of the at least three operating modes controls playback of the media.

7. The method of claim 6, wherein the media player program comprises an audio player.

8. A method of implementing a user interface for a program running on a computer, the method comprising the steps of:

presenting a first user interface to a user, the first user interface having a first size;

accepting a first command from the user, using the first user interface, to change the size of the user interface;

presenting a second user interface to the user in response to the first command, the second user interface having a second size different from the first size;

accepting a second command from the user, using the second user interface, to change the size of the user interface; and

presenting a third user interface to the user in response to the second command, the third user interface having a third size different from the first size and the second size.

9. The method of claim 8, further comprising the steps of:

accepting a third command from the user, using the third user interface, to change the size of the user interface;

presenting the first user interface to the user in response to the third command.

10. The method of claim 8, wherein the second size has an area that is about one third of the first size, and the third size has an area that is about one thirtieth of the first size.

11. The method of claim 8, wherein the first, second, and third user interfaces all have different shapes.

12. The method of claim 8, wherein the first command comprises a click on a change-size control region, and wherein the second command comprises a click on a change-size control region.

13. The method of claim 8, wherein the first command comprises a double-click on a background portion of the first user interface, and the second command comprises a double-click on a background portion of the second user interface.

14. The method of claim 8, wherein the program comprises a media player application program, and playback of the media is controlled by each of the first, second, and third user interfaces

15. The method of claim 14, wherein the media player application comprises an audio player.

16. A method of implementing a user interface for a program running on a computer, the method comprising the steps of:

providing a region on a display having a first control area and a second control area;

wherein the first control area includes a plurality of control regions that, when selected, control operation of the program, and

wherein the second control area displays information and control menus that depend on an operating mode of the program,

wherein a layout of the first control area is configurable in accordance with a user-selectable configuration file, and a layout of the second control area is independent of the user-selectable configuration file.

17. The method of claim 16, wherein the control regions in the first control area and the menus in the second control area are selected using a pointing device connected to the computer.

18. The method of claim 16, wherein a color scheme of the second control area is configurable in accordance with the user-selectable configuration file.

19. The method of claim 16, wherein the program comprises a media player application program.

20. The method of claim 19, wherein the media player application comprises an audio player.

21. A method of implementing a virtual instrument on a computer, the method comprising the steps of:

displaying a background region having an outer boundary;

displaying a plurality of control regions within the outer boundary, wherein actuation of the control regions control operation of the virtual instrument;

displaying a window region within the outer boundary; and

displaying status information about the virtual instrument and context-sensitive menus that control the instrument in the window region.

22. The method of claim 21, wherein the control regions and the context-sensitive menus are operated using a pointing device connected to the computer.

23. The method of claim 21, wherein a layout of the control regions on the background region is configurable in accordance with a user-selectable configuration file, and a layout of the

status information and context-sensitive menus displayed in the window is independent of the user-selectable configuration file.

24. The method of claim 21, wherein the virtual instrument comprises a media player.

25. The method of claim 24, wherein the virtual instrument comprises an audio player.

26. A method of implementing a user interface for a program running on a computer, the method comprising the steps of:

displaying a first user interface region on a display, during a first time, the first user interface region having a first outer boundary and a first set of controls located within the first outer boundary that control operation of the program; and

modifying the user interface region on the display by adding, during a second interval of time, a supplemental region that is contiguous to the first user interface region and extends outside the first outer boundary, the supplemental region containing a second set of controls that control operation of the program.

27. The method of claim 26, wherein the first user interface region includes a boundary expansion control located within the first outer boundary of the user interface region, and actuation the boundary expansion control triggers the modifying step.

28. The method of claim 26, wherein the modifying step is triggered automatically in response to actuation of a predetermined operating mode of the program.

29. The method of claim 26, wherein more important functions of the program are controlled by the first set of controls, and less important functions of the program are controlled by the second set of controls.

30. The method of claim 26, wherein the user interface region includes a boundary contraction control, wherein actuating the boundary contraction control causes the supplemental region to disappear and causes the outer boundary of the user interface region to return to the first outer boundary.

31. The method of claim 26, wherein, when the boundary expansion control is actuated, the supplemental region extends out of the user interface region slowly, with a sliding action.

32. The method of claim 26, wherein the user interface region comprises controls for a media player, and the second set of controls comprises a plurality of frequency equalization controls.

33. The method of claim 26, wherein the user interface region comprises controls for an audio player, the first set of controls comprises play and stop controls, and the second set of controls comprises a multi-band audio frequency equalizer.

34. A method of implementing a user interface for a program running on a computer, the method comprising the steps of:

displaying, on a display, for a first interval of time, a user interface display in a first operating state in which the user interface display has a first outer boundary and a first set of controls located within the first outer boundary; and

displaying, on the display, for a second interval of time, the user interface display in a second operating state in which a portion of the user interface display extends outside the first outer boundary, with a second set of controls located on the user interface display outside the first boundary and the first set of controls located on the user interface display inside the first boundary,

wherein operation of the program in the first operating modes is controlled only by the first set of controls, and operation of the program in the second operating modes is controlled by the first set of controls and the second set of controls.

35. The method of claim 34, wherein the user interface display depicts a media player, and the second set of controls comprises a plurality of frequency equalization controls.

36. The method of claim 34, wherein the user interface display depicts an audio player, the first set of controls comprises play and stop controls, and the second set of controls comprises a multi-band audio frequency equalizer.

37. A method of implementing a user interface for a program running on a computer, the method comprising the steps of:

displaying, on a display, for a first interval of time, a main user interface region with a extension user interface region contiguous to the main user interface region, the extension user interface region including a set equalizer controls that are accessible during the first interval of time; and

displaying, on the display, for a second interval of time, the main user interface region without the extension user interface region, whereby the set of equalizer controls located on the supplemental control region is not accessible during the second interval of time.

38. The method of claim 37, further comprising the steps of:

displaying, on the display, a gradual transition of the extension user interface region moving from the displayed state to the non-displayed state, with a sliding motion; and

displaying, on the display, a gradual transition of the extension user interface region moving from the non-displayed state to the displayed state, with a sliding motion.

39. The method of claim 37, further comprising the step of displaying, on the display, a set of controls on the main user interface region that are accessible whether or not the extension user interface region is displayed.

40. The method of claim 37, wherein the user interface region comprises play and stop controls that are always accessible.

41. A user interface method for displaying progress of access to a plurality of items in a list, the method comprising the steps of:

providing an indicator that travels through a plurality of regions, each of the regions corresponding to a respective one of the items; and

moving the indicator, when an item in the list is accessed, into the region corresponding to the item being accessed.

42. A user interface method for displaying playback progress of a plurality of tracks in a media player, the method comprising the steps of:

providing a playlist indicator that travels through a plurality of regions, each of the regions corresponding to a respective one of the tracks; and

moving the playlist indicator, when playback of a track by the media player begins, into the region corresponding to the track being played.

43. A user interface method for displaying playback progress of a plurality of tracks in a media player, the method comprising the steps of:

providing a playlist indicator that travels through a plurality of regions, each of the regions corresponding to a respective one of the tracks; and

moving the playlist indicator, when a track is being played by the media player, through the region corresponding to the track being played.

44. The method of claim 43, further comprising the step of providing a track progress indicator, wherein the track progress indicator moves at a relatively constant speed from a start position to an end position as playback progresses from a beginning of a track to an end of a track, for each track.

45. The method of claim 43, wherein a size of all of the regions is substantially the same.

46. The method of claim 43, wherein the playlist indicator moves at a relatively constant speed from a beginning of each of the regions to an end of each of the regions as playback progresses from a beginning of the corresponding track to an end of the corresponding track.

47. The method of claim 46, wherein the playlist indicator is implemented using a bar graph.

48. The method of claim 46, wherein the playlist indicator is implemented using a plurality of individual display elements arranged in a straight line, and a display characteristic of the individual display elements is changed sequentially to indicate progress through the tracks.

49. The method of claim 46, wherein the playlist indicator is implemented using a plurality of individual display elements arranged along a curved path, and a display characteristic of the individual display elements is changed sequentially to indicate progress through the tracks.

50. The method of claim 43, wherein selecting a region of the playlist causes the media player to play the track corresponding to the selected region.

51. The method of claim 50, wherein the selecting of the region of the playlist is accomplished by clicking a button on a mouse.

52. The method of claim 43, wherein selecting a position within a selected region of the playlist causes the media player to play the track corresponding to the selected region, starting

at a position within the track that is proportional to the selected position within the selected region.

53. The method of claim 52, wherein the selecting of the position within the region of the playlist is accomplished by clicking a button on a mouse.

54. A method of implementing a user interface for a multi-band controller, the method comprising the steps of:

displaying a plurality of controls, each set to an initial setting, wherein each of the controls controls a level for each of a plurality of bands, respectively;

accepting a user adjustment of a setting of one of the controls; and

adjusting, in response to the user adjustment, control settings that were not adjusted by the user.

55. The method of claim 54, wherein each of the bands is a band of audio frequencies.

56. The method of claim 54, wherein each of the controls comprises a slide control.

57. A method of implementing a user interface for a multi-band frequency equalizer, the method comprising the steps of:

displaying a plurality of controls, wherein each of the controls controls an output level for each of a plurality of frequency bands, respectively;

displaying an initial level setting for each of the frequency bands;

accepting a user adjustment of a setting of one of the controls;

adjusting, in response to the user adjustment, controls that were not adjusted by the user; and

displaying an adjusted level setting for each of the frequency bands.

58. The method of claim 57, further comprising the step of storing an initial level setting for each of the frequency bands,

wherein, in the adjusting step, the setting of each control that was not adjusted by the user is adjusted by an amount inversely proportional to the square of the distance to the control that was adjusted, after the user adjustment of the setting has been finalized.

59. A method of implementing a user interface for a multi-band frequency equalizer in a media player, the method comprising the steps of:

(a) providing a media player;

(b) displaying a plurality of controls, each set to an initial setting, wherein each of the controls controls an output level for each of a plurality of audio frequency bands, respectively;

(c) accepting a user adjustment of a setting of one of the controls;

(d) adjusting, in response to the user adjustment, control settings that were not adjusted by the user; and

(e) adjusting frequency characteristics of playback by the media player in accordance with the setting of the control that was adjusted by the user and the control settings that were adjusted in step (d).

60. The method of claim 59, wherein each of the controls comprises a slide control.

61. The method of claim 59, wherein the indication that the setting adjustment of the control has been completed comprises releasing a button on a mouse.

62. The method of claim 59, further comprising the step of storing the initial setting for each of the controls, wherein step (d) comprises the steps of:

waiting for an indication that the user adjustment of the control has been completed; and

adjusting the settings for the controls that were not adjusted by the user to form a smooth curve that includes the adjusted setting of the user-adjusted control.

63. The method of claim 59, further comprising the step of storing the initial setting for each of the controls, wherein the step (d) comprises the steps of:

waiting for an indication that the user adjustment of the control has been completed; and

adjusting the settings for the controls that were not adjusted by the user by an amount that depends on the adjustment of the control that was user-adjusted and a proximity to the user-adjusted control.

64. The method of claim 59, wherein the indication that the setting adjustment of the control has been completed comprises releasing a button on a mouse.

65. A method of implementing a user interface control on a computer display, comprising the steps of:

(a) displaying a control region on the display with visual characteristics that distinguish the control region from a background;

(b) detecting when a user has selected the control region;

(c) momentarily increasing the brightness of the displayed control region in response to the detection made in step (b); and

(d) initiating a control function in response to the detection made in step (b).

66. The method of claim 65, wherein step (b) comprises the step of detecting when a user has used a mouse to click on the control region.

67. The method of claim 65, wherein the control region is circular.

68. A method of implementing a user interface for a media player with a computer-generated display, the method comprising the steps of:

(a) displaying a control region on the display with visual characteristics that distinguish the control region from a background;

(b) detecting when a user has selected the control region;

(c) momentarily increasing the brightness of the displayed control region in response to the detection made in step (b); and

(d) initiating a playback function of the media player in response to the detection made in step (b).

69. The method of claim 68, wherein step (b) comprises the step of detecting when a user has used a mouse to click on the control region.

70. The method of claim 68, wherein the control region is circular.

71. A method of implementing a dual-function user interface region on a computer display, comprising the steps of:

(a) displaying a control region at a given location on the display, the control region having a first color;

(b) detecting when a user has selected the control region while the control region has the first color;

(c) gradually fading out the first color of the control region in response to the detection made in step (b);

(d) gradually fading in a second color for the control region in response to the detection made in step (b); and

(e) initiating a first control function in response to the detection made in step (b).

72. The method of claim 71, wherein step (b) comprises the step of detecting when a user has used a mouse to click on the control region.

73. The method of claim 71, wherein the fade out and fade in occurs over a user-selectable period of time.

74. The method of claim 71, wherein the fade out and fade in occurs in accordance with a predetermined function.

75. The method of claim 71, wherein the fade out takes about 200 mSec in step (c) and the fade in takes about 200 mSec in step (d).

76. The method of claim 71, wherein the control region is circular.

77. The method of claim 71, further comprising the steps of

(f) detecting when a user has selected the control region while the control region has the second color;

(g) gradually fading out the second color of the control region in response to the detection made in step (f);

(h) gradually fading in the first color for the control region in response to the detection made in step (f); and

(i) initiating a second control function in response to the detection made in step (f).

78. The method of claim 77, wherein the first control function is a starting of playback in a media player, and the second control function is a stopping of playback in the media player.

79. The method of claim 78, wherein the first color is green, and the second color is red.

80. The method of claim 78, wherein the control region comprises a triangle icon while the control region has the first color, and the control region comprises a square icon while the control region has the second color.

81. A method of presenting information to a user on a computer-generated display, the method comprising the steps of:

introducing an image containing information into a display window so as to create an appearance that the introduced image is sliding into the display window; and

removing an image containing information from the display window so as to create an appearance that the removed image is sliding out of the display window.

82. A method of presenting menus to a user of a media player having a display window, the method comprising the steps of:

introducing an image containing a menu relating to operation of the media player into the display window so as to create an appearance that the introduced image is sliding into the display window; and

removing an image containing a menu relating to operation of the media player from the display window so as to create an appearance that the removed image is sliding out of the display window.

83. The method of claim 82, wherein the introduced image further contains status information.

84. The method of claim 82, wherein, in the introducing step, the introduced image slides into the display window from a side of the display window, and wherein, in the removing step, the removed image slides out of the display window to the side of the display window.

85. The method of claim 82, wherein, in the introducing step, the introduced image slides into the display window from a bottom of the display window, and wherein, in the removing step,

the removed image slides out of the display window to the bottom of the display window.

86. The method of claim 82, wherein, in the introducing step, the introduced image slides into the display window from a corner of the display window, and wherein, in the removing step, the removed image slides out of the display window to the corner of the display window.

87. The method of claim 82, wherein a rate that the images slide into and out of the display window is user-selectable.

88. A method of providing visual effects for a media player running under a window-based operating system on a computer, the method comprising the steps of:

displaying, in a single window of the window-based operating system, a user interface region with a display window integrated into the user interface region; and

displaying, on the display window, visual effects corresponding to material being played on the media player.

89. The method of claim 88, further comprising the step of displaying text superimposed over the visual effects displayed on the display window.

90. The method of claim 88, wherein the visual effects displayed on the display window are generated based on bit-mapped data.

91. The method of claim 88, wherein the window-based operating system is Linux or Microsoft® Windows.

92. A method of implementing a user interface for a program running on a computer, the method comprising the steps of:

(a) displaying, on a display, for a first interval of time, a main user interface region with a extension user interface region contiguous to the main user interface region, the extension user interface region including a set of control regions; and

(b) displaying, on the display, for a second interval of time, the main user interface region without the extension user interface region, whereby the set of control regions located on the extension user interface region are not accessible during the second interval of time.

93. The method of claim 92, further comprising the steps of:

displaying, on the display, during a third interval of time, a sliding transition of the extension user interface region from the displayed state to the non-displayed state; and

displaying, on the display, during a fourth interval of time, a sliding transition of the extension user interface region moving from the non-displayed state to the displayed state.

94. The method of claim 92, further comprising the step of displaying, on the display, a set of controls on the main user interface region that are accessible both when the extension user interface region is in the non-displayed state and when the extension user interface region is in the displayed state.

95. The method of claim 92, wherein step (a) is performed in response to a user positioning a pointer over the main user interface region, and step (b) is performed in response to a user positioning a pointer away from both the main user interface region and the extension user interface region.

96. The method of claim 95, wherein the user positions the pointer by moving a mouse.

97. The method of claim 96, wherein step (a) and step (b) are initiated without mouse clicks.

98. The method of claim 92, wherein the display is implemented on window-based operating system, the window containing the main user interface region is set to be always on top, and step (a) is performed in response to a user positioning a pointer over the main user interface region even when the main user interface region is not an active window, and step (b) is performed in response to a user positioning a pointer away from both the main user interface region and the extension user interface region even when the main user interface region is not the active window.

99. The method of claim 92, wherein the main user interface region comprises a user interface for a media player, and the control regions included on the extension user interface region implement functions of play and stop.

100. The method of claim 92 wherein the main user interface region comprises a user interface for a media player, and

the control regions included on the extension user interface region implement functions of play, stop, pause, and change of track.

101. The method of claim 92, wherein a transition from the display presented in step (a) and the display presented in step (b) is made by sliding an image of the extension user interface region upwards when the main user interface region is located in the bottom half of the display, and sliding an image of the extension user interface region downwards when the main user interface region is located in the top half of the display.

102. The method of claim 101, wherein the extension user interface region flips from its upwards position to its downwards position when the main user interface region is dragged from the bottom half of the display to the top half of the display, and the extension user interface region flips from its downwards position to its upwards position when the main user interface region is dragged from the top half of the display to the bottom half of the display.

ABSTRACT

A number of user interface techniques for virtual instruments implemented using a computer are disclosed. These techniques include providing a multi-sized user interface, separating a user interface into two control regions, providing a pop-out control panel, providing a graphical playlist indicator, inter-relating band controls, controlling button illumination, sliding information onto and off of a display panel, integrating visualizations into an instrument, and providing a pop-out control panel with control buttons.

FIG. 1

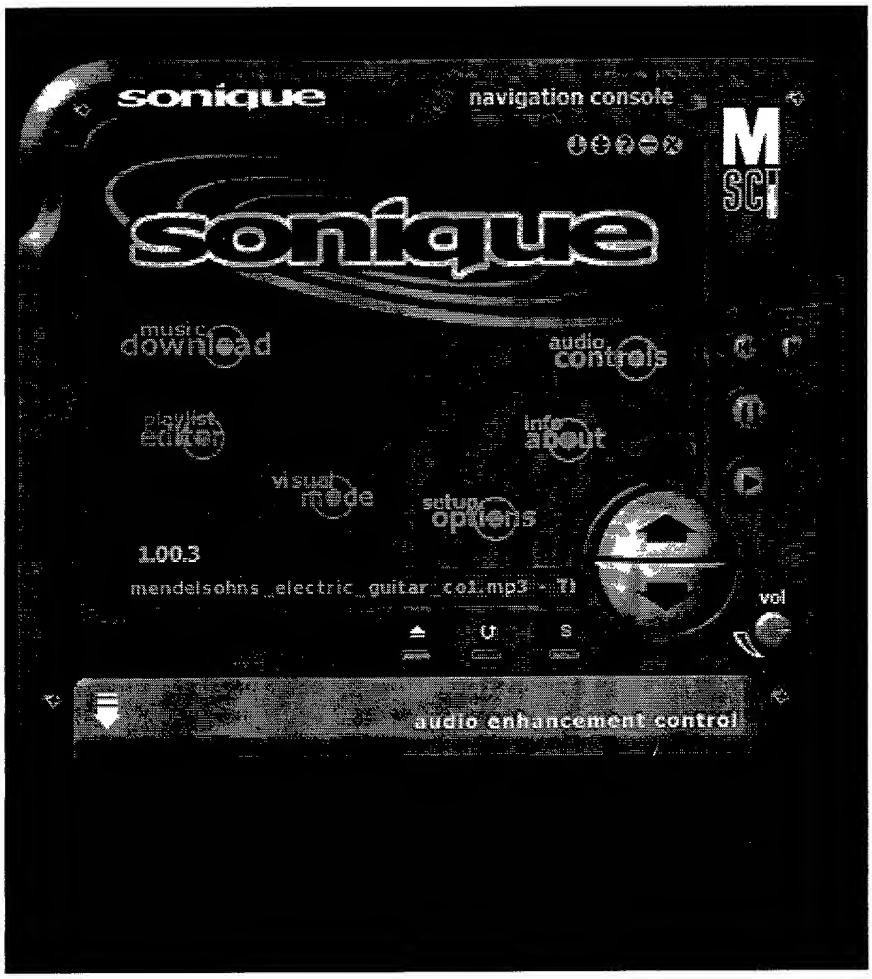
sonique
navigation console
sonique
music download
audio controls
playlist editor
info about
visual mode
setup options
1.00.3
mendelsohns_electric_guitar_co1.mp3
vol
audio enhancement control

FIG. 2

sonique
navigation console
sonique
music download
audio controls
playlist editor
info about
visual mode
setup options
1.00.3
mendelsohns_electric_guitar_col.mp3
vol
audio enhancement control

FIG. 3

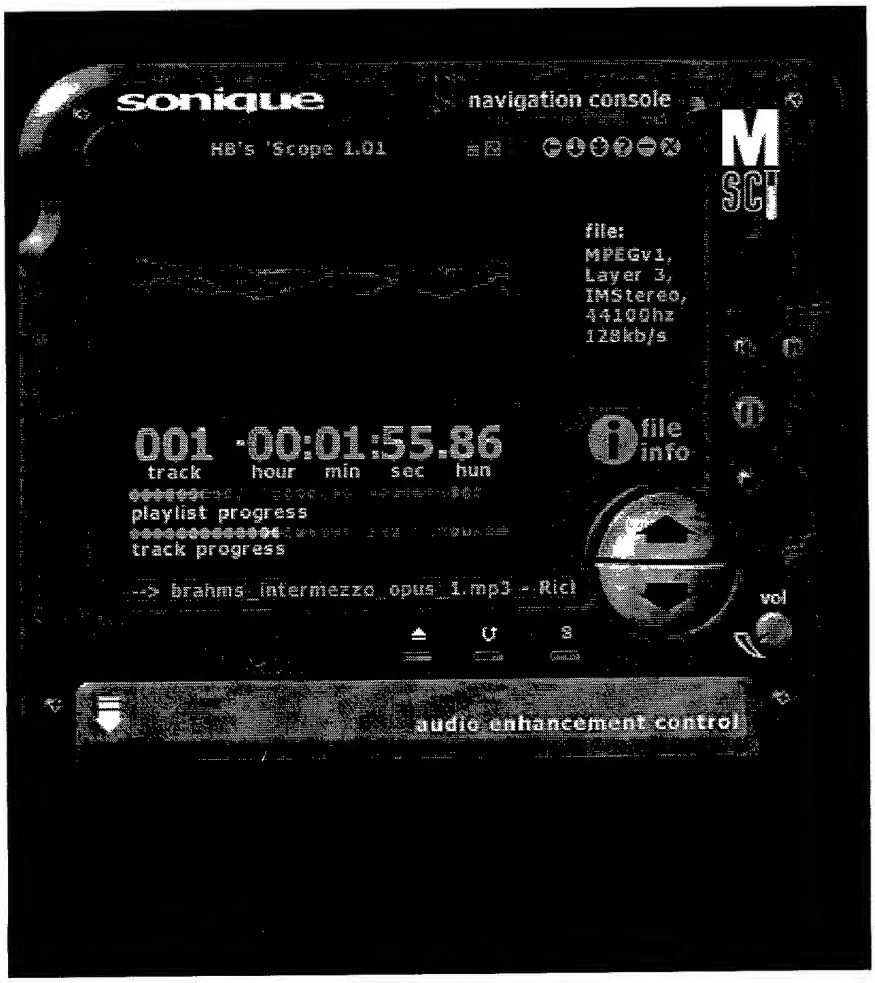
sonique
navigation console
HB's 'Scope 1.01
file:
MPEGv1,
Layer 3,
IMStereo,
44100hz
128kb/s
001
track
-00:01:55.86
hour min sec hun
file
info
playlist progress
track progress
--> brahms_intermezzo_opus_1.mp3 - Ric!
vol
audio enhancement control

FIG. 4

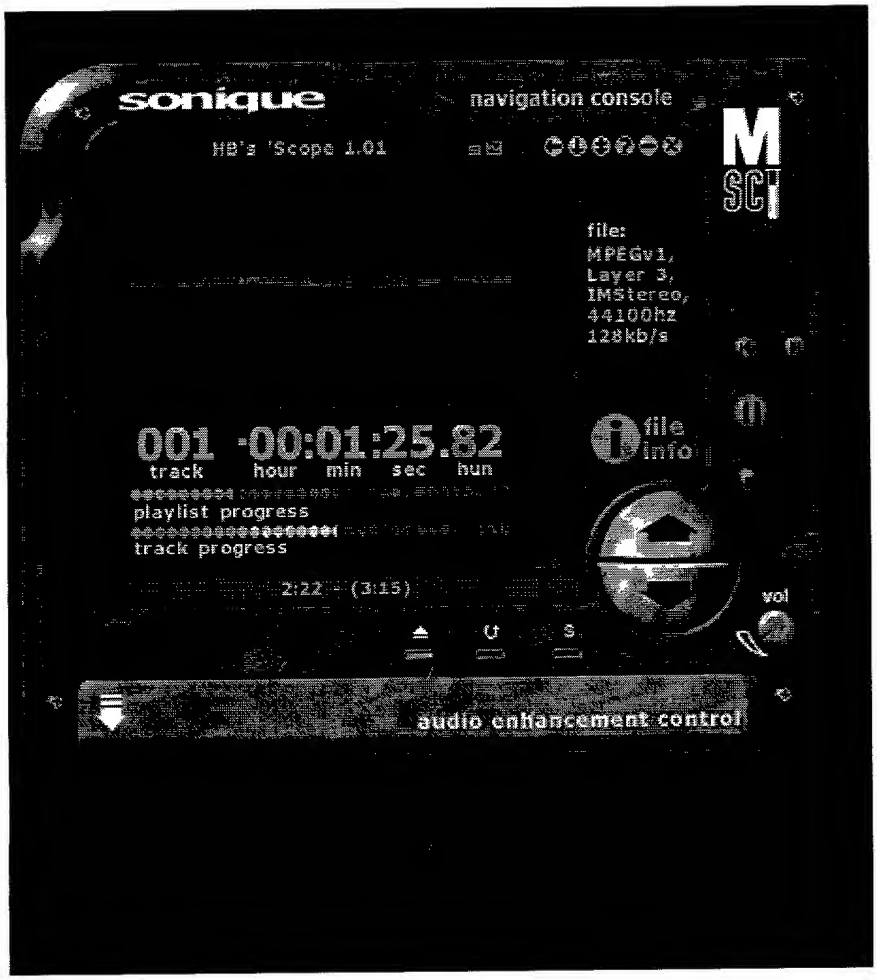
sonique
navigation console
HB's 'Scope 1.01
file:
MPEGv1,
Layer 3,
IMStereo,
44100hz
128kb/s
001 -00:01:25.82
track hour min sec hun
file info
playlist progress
track progress
2:22 (3:15)
vol
audio enhancement control

FIG. 5

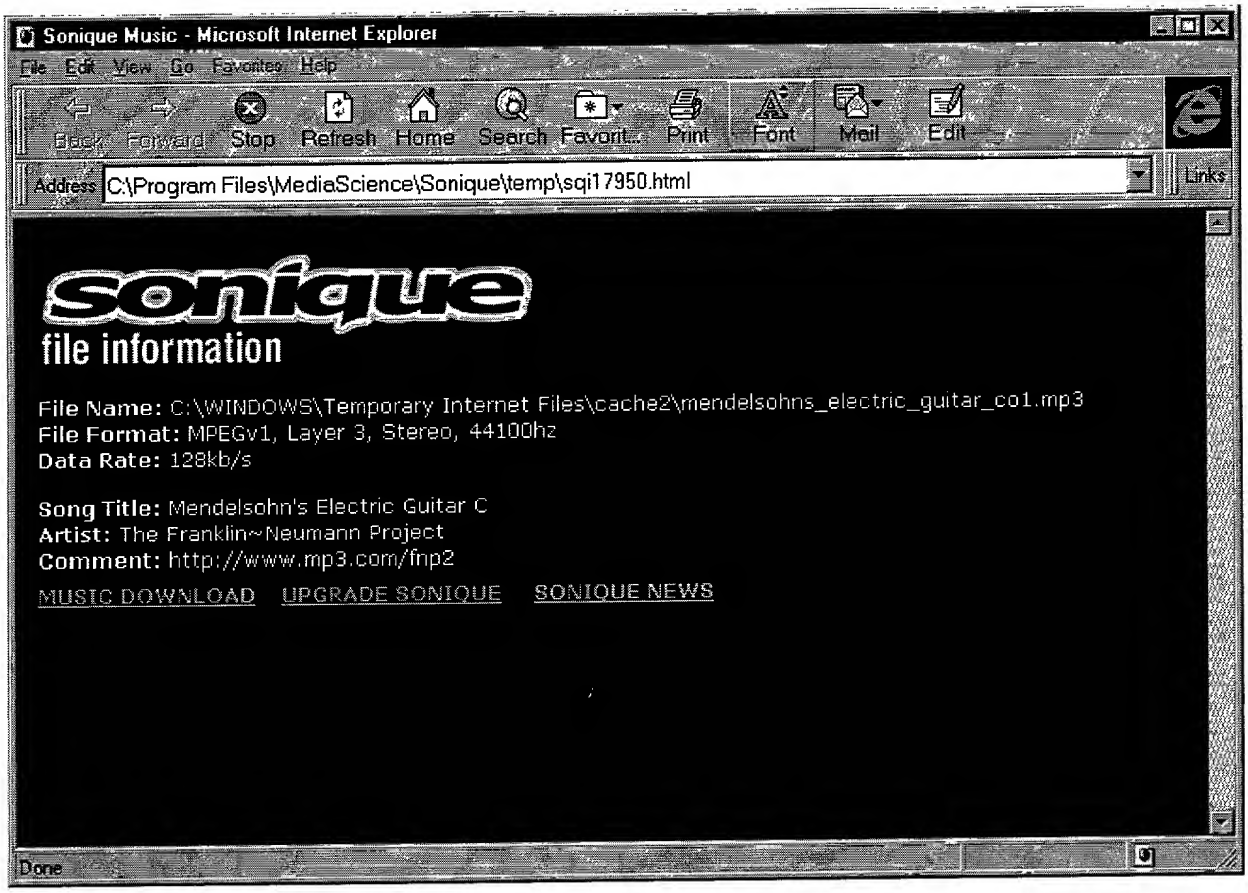
Sonique Music - Microsoft Internet Explorer
File Edit View Go Favorites Help
Back Forward Stop Refresh Home Search Favorit... Print Font Mail Edit
Address C:\Program Files\MediaScience\Sonique\temp\sqi17950.html
Links
sonique
file information
File Name: C:\WINDOWS\Temporary Internet Files\cache2\mendelsohns_electric_guitar_co1.mp3
File Format: MPEGv1, Layer 3, Stereo, 44100hz
Data Rate: 128kb/s
Song Title: Mendelsohn's Electric Guitar C
Artist: The Franklin~Neumann Project
Comment: http://www.mp3.com/fnp2
MUSIC DOWNLOAD
UPGRADE SONIQUE
SONIQUE NEWS
Done

FIG. 6

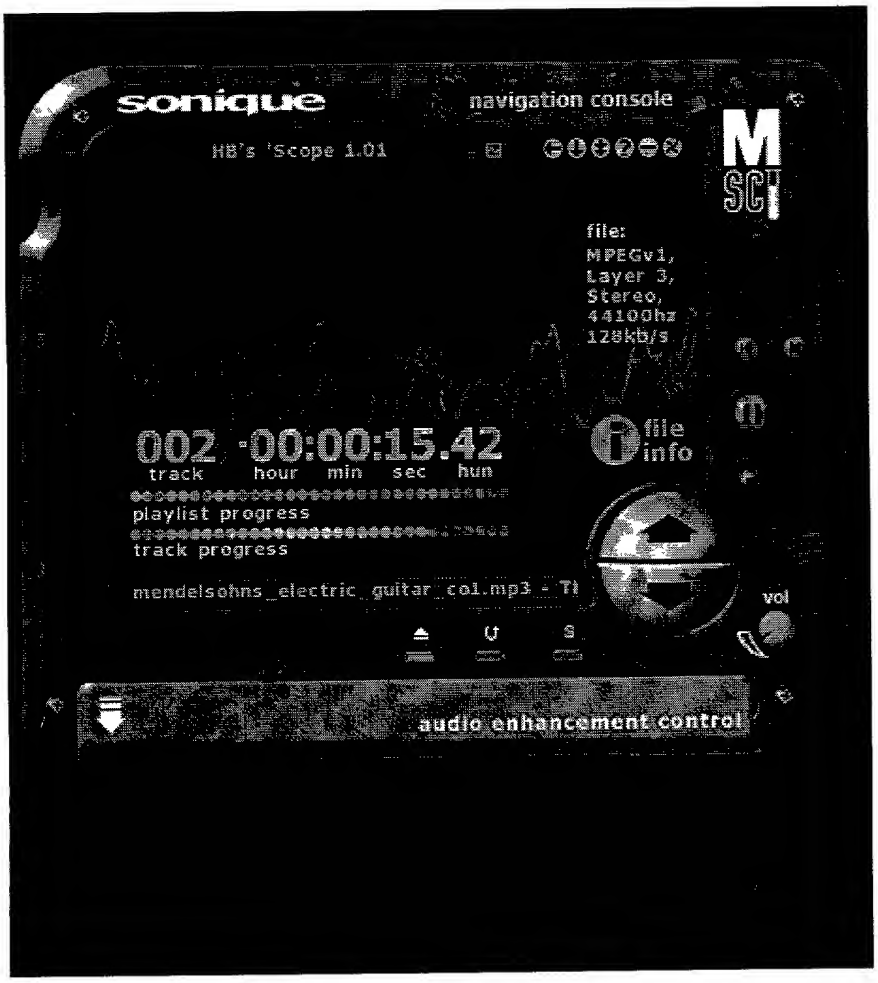
sonique
navigation console
HB's 'Scope 1.01
file:
MPEGv1,
Layer 3,
Stereo,
44100hz
128kb/s
002 ·00:00:15.42
track hour min sec hun
file info
playlist progress
track progress
mendelsohns_electric_guitar_co1.mp3 - Ti
vol
audio enhancement control

FIG. 7

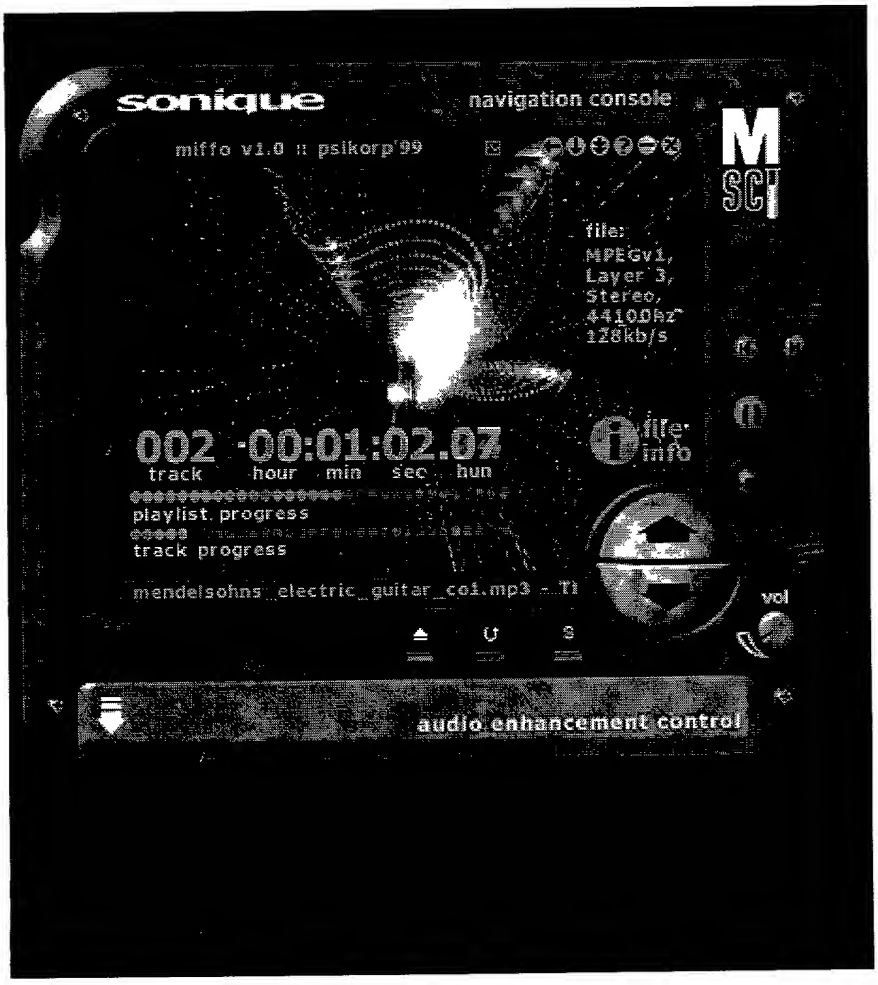
sonique
navigation console
miffo v1.0 :: psikorp'99
file:
MPEGv1,
Layer 3,
Stereo,
44100hz
128kb/s
002 -00:01:02.07
track hour min sec hun
file info
playlist progress
track progress
mendelsohns_electric_guitar_coi.mp3 - Ti
vol
audio enhancement control

FIG. 8

sonique
navigation console
audio enhancement:
equalizer enabled
spline tension
load save reset None
mendelsohns_electric_guitar_coi.mp3 - The
vol
audio enhancement control

FIG. 9

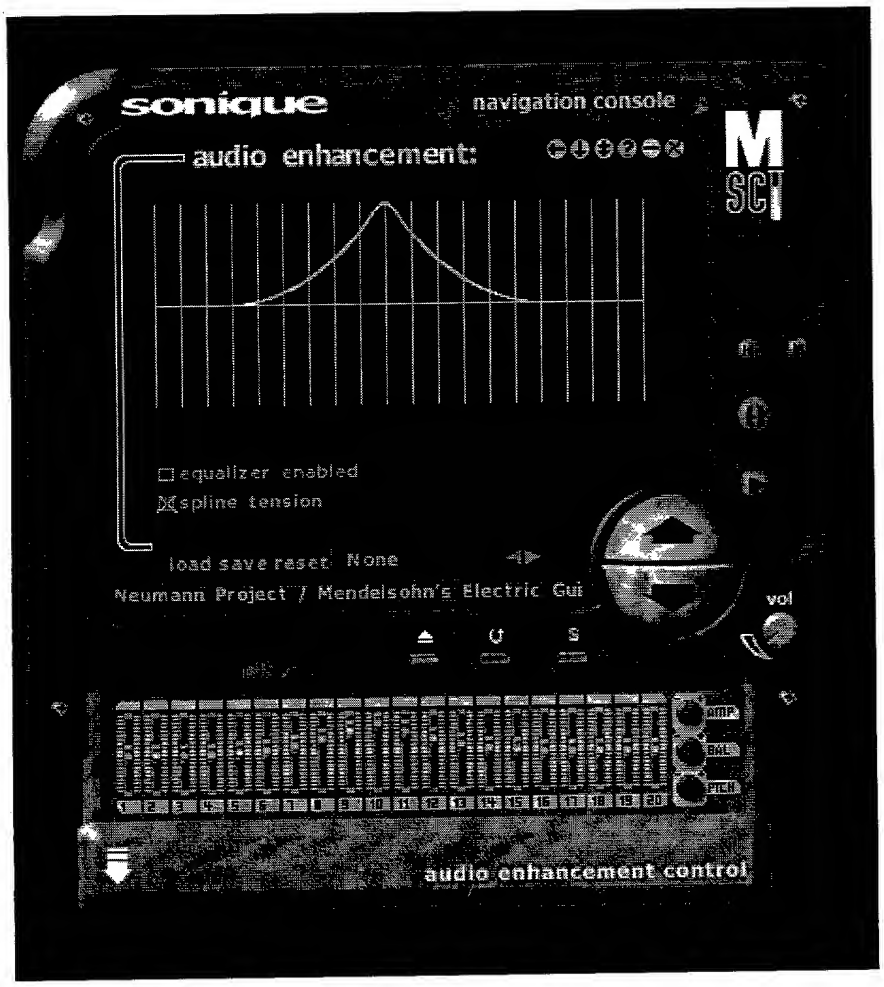
sonique
navigation console
audio enhancement:
equalizer enabled
spline tension
load save reset None
Neumann Project / Mendelsohn's Electric Gui
vol
audio enhancement control

FIG. 10

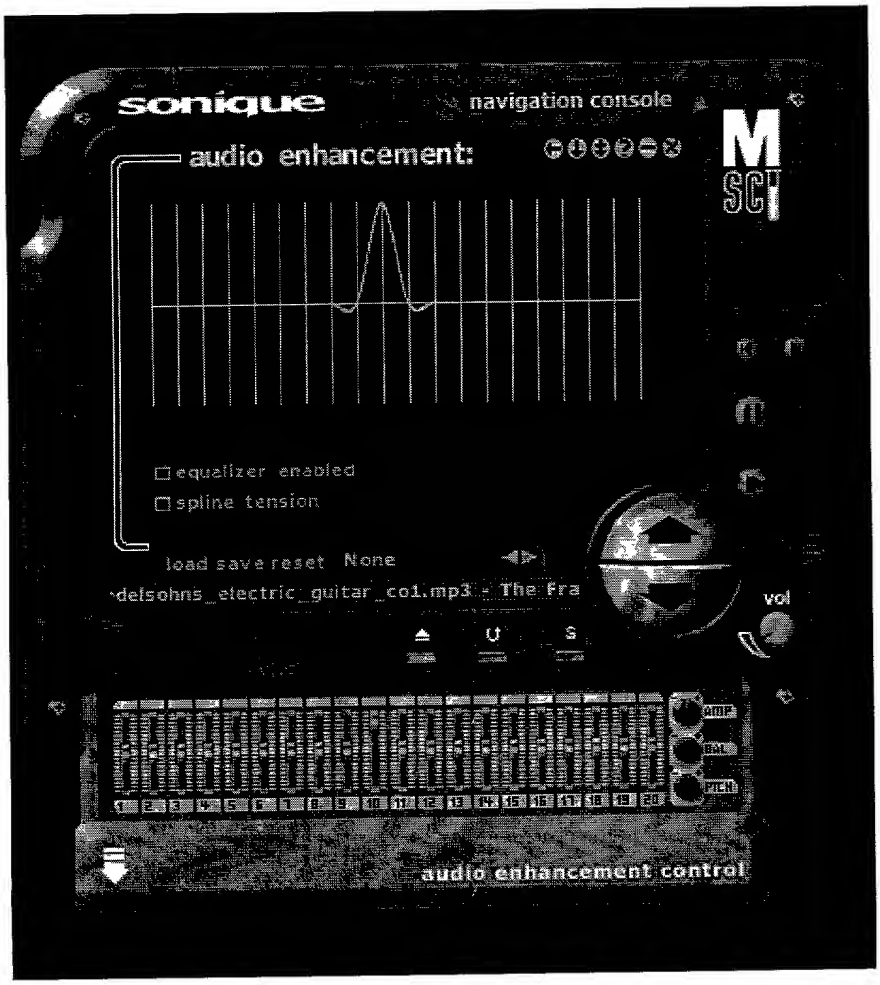
sonique
navigation console
audio enhancement:
equalizer enabled
spline tension
load save reset None
delsohns_electric_guitar_co1.mp3 - The Fra
vol
audio enhancement control

FIG. 11

sonique
navigation console
setup options:
Original
System
Audio
Visual
File Type
Vis FX
Internet
Skins
author: Ian Lyman
contact: get more skins!
general
plugins
~Neumann Project / Mendelsohn's Electric G
vol
audio enhancement control

FIG. 12

sonique
navigation console
setup options:
Neo v1.0
System
Audio
Visual
File Type
Vis FX
Internet
Skins
author: zino x
contact: xato inc.
general
plugins
mendelsohns_electric_guitar_coi.mp3
vol
audio enhancement control

FIG 13

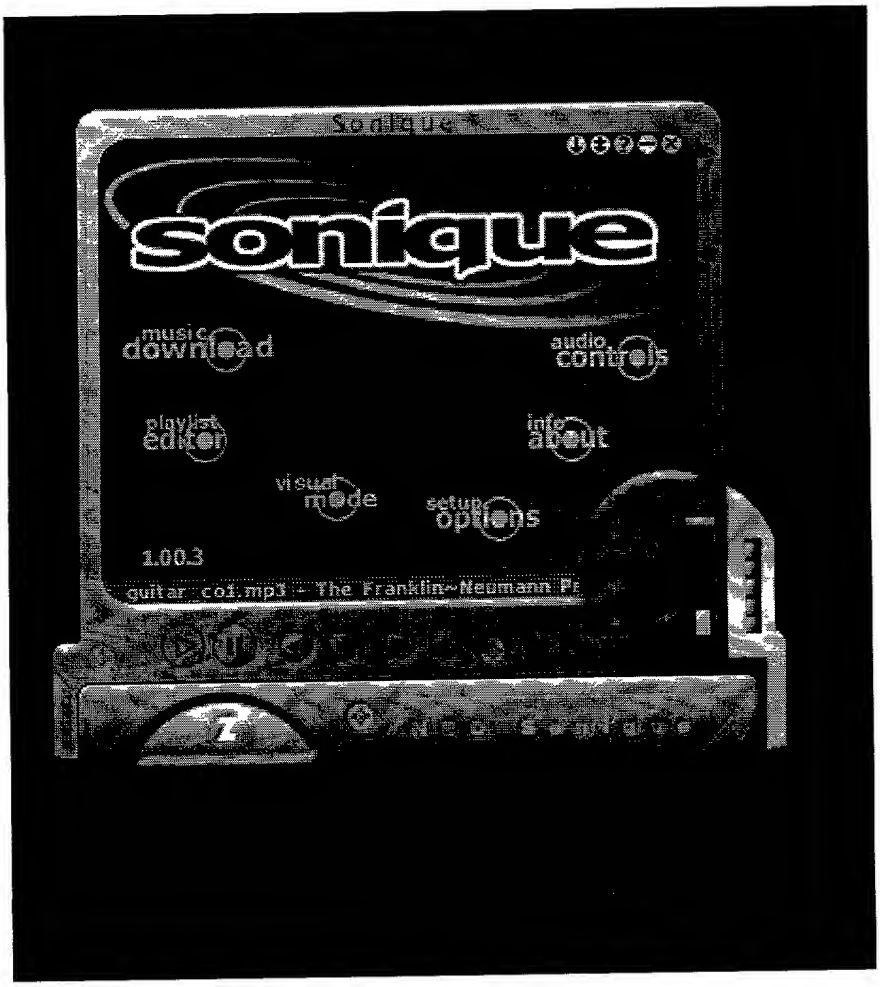
sonique
music download
audio controls
playlist editor
info about
visual mode
setup options
1.00.3

FIG 14

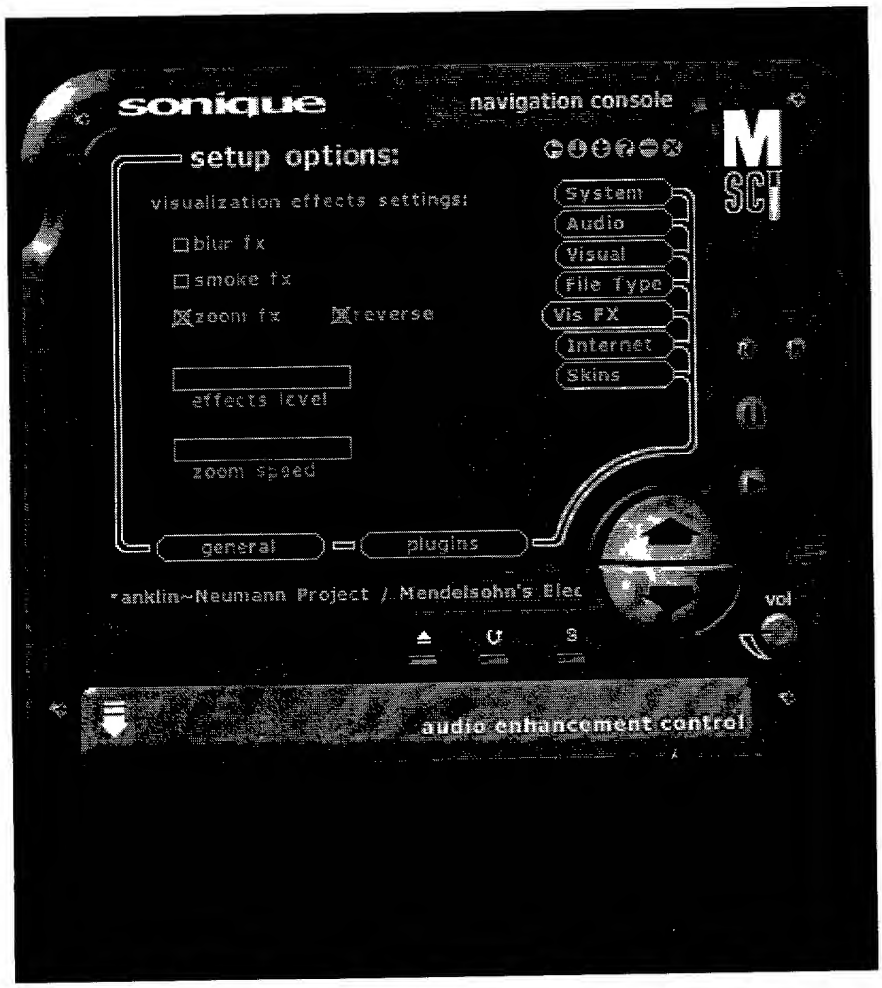
sonique
navigation console
setup options:
visualization effects settings:
blur fx
smoke fx
zoom fx
reverse
effects level
zoom speed
System
Audio
Visual
File Type
Vis FX
Internet
Skins
general
plugins
audio enhancement control
vol

FIG 15

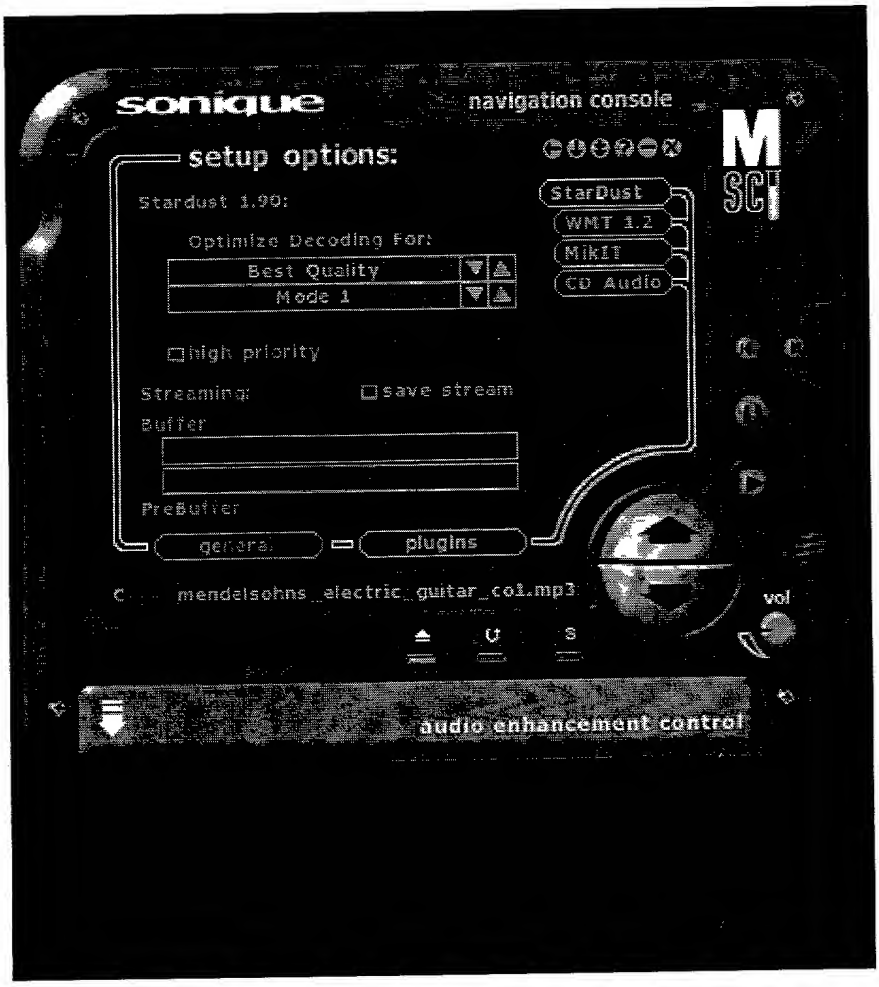
sonique
navigation console
setup options:
Stardust 1.90:
Optimize Decoding For:
Best Quality
Mode 1
high priority
Streaming:
save stream
Buffer
PreBuffer
general
plugins
StarDust
WMT 1.2
MikIt
CD Audio
mendelsohns_electric_guitar_co1.mp3
vol
audio enhancement control

FIG. 16

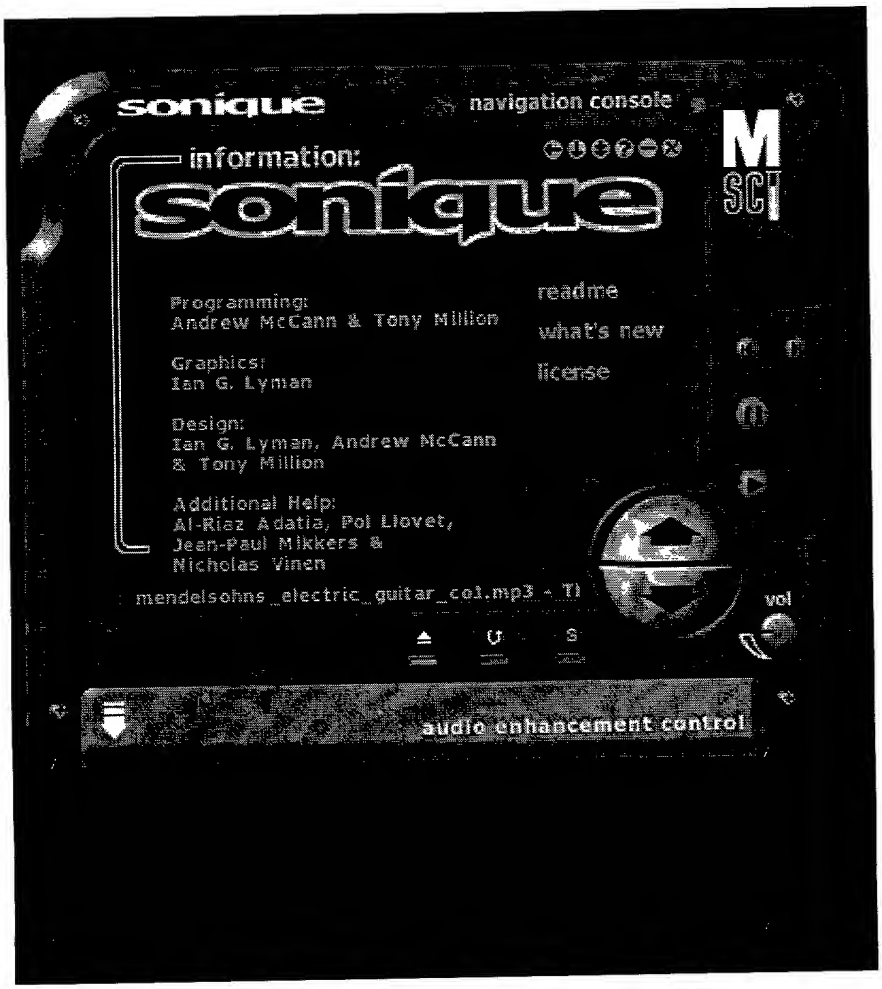
sonique
navigation console
information:
sonique
Programming:
Andrew McCann & Tony Million
Graphics:
Ian G. Lyman
Design:
Ian G. Lyman, Andrew McCann
& Tony Million
Additional Help:
Al-Riaz Adatia, Poi Llovet,
Jean-Paul Mikkers &
Nicholas Vinen
readme
what's new
license
mendelsohns_electric_guitar_co3.mp3 - T
vol
audio enhancement control

FIG. 17

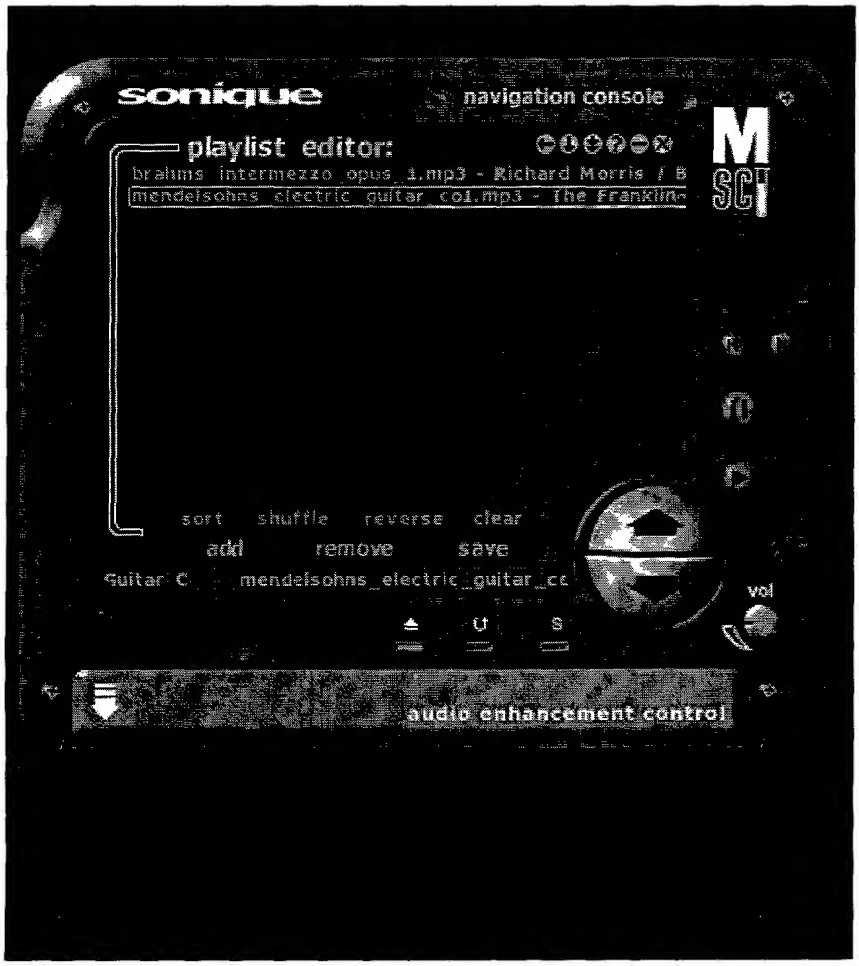
sonique
navigation console
playlist editor:
brahms_intermezzo_opus_1.mp3 - Richard Morris / B
mendelsohns_electric_guitar_co1.mp3 - The Franklin-
sort
shuffle
reverse
clear
add
remove
save
Guitar C
mendelsohns_electric_guitar_cc
vol
audio enhancement control

FIG. 17B

sonique
navigation console
music download:
sonique
download
music
sonique online
get music
news
sonique news
sonique upgrades
sonique FAQ
find
music
want_me1.mp3 - Red Delicious / Want Me..
vol
audio enhancement control

FIG. 18

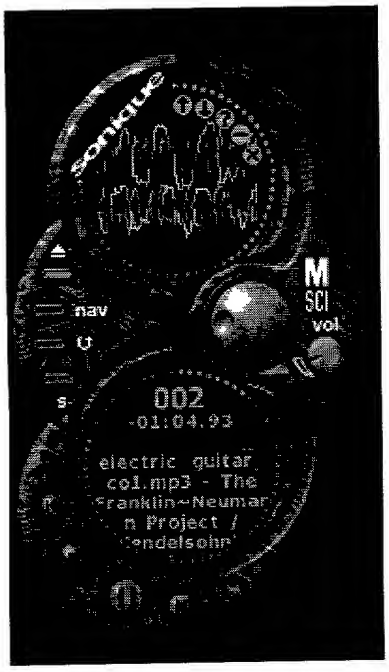
sonique
nav
M
SCI
vol
002
-01:04.93
electric guitar
col.mp3 - The
Franklin~Neuman
n Project /
Mendelsohn

FIG. 19

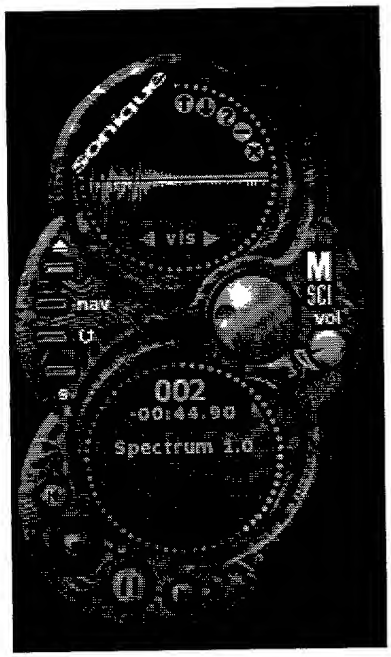
sonique
◄ vis ►
nav
M
SCI
vol
002
-00:44.00
Spectrum 1.0

FIG. 20

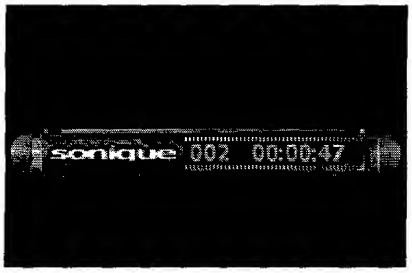

FIG. 21

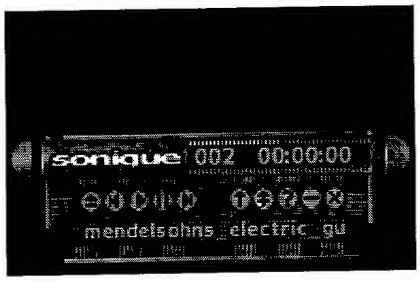
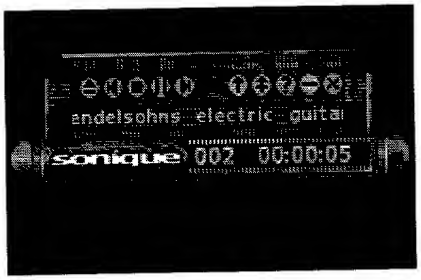
FIG. 22